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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 18th January 1997

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Telegraphic address "PATENTOFIC"

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Rest of India.

Telegraphic address "PATENTS"

All applications, notes statements or other documents or any fees required by Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 18 जनवरी 1997

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,
तीसरा तल, लोअर परेल (प.),
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश
तथा गोआ राज्य क्षेत्र एवं संघ
शासित क्षेत्र, दमन तथा दीव एवं
दादर और नगर हवेली ।

तार पता - "पेटोफिस"

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू
तथा कश्मीर, पंजाब, राजस्थान,
उत्तर प्रदेश तथा दिल्ली राज्य
क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ ।

तार पता - "पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, बालाजाह रोड,
मद्रास-600 002.

आन्ध्र प्रदेश, कर्नाटक, केरल तमिलनाडु
तथा पाण्डिचेरी राज्य क्षेत्र एवं
संघ शासित क्षेत्र, लक्षद्वीप, मिनिकाय
तथा एमिनिदिवि द्वीप ।

तार पता - "पेटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस मार्ग,
कलकत्ता-700 020.

भारत का अवशेष क्षेत्र ।

तार पता - "पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 234/4, ACHRYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crecent bracket are the dated claimed under section 135, of the Patent Act, 1970.

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534/Del/96. Mul-T-Lock Technologies Ltd., Israel. "Lock for chambers and magazines of weapons". (Convention date 15th March 1995), Norway,

535/Del/96. Wegener Schwelmn GMBH & Co., Germany. "A method for cutting belts that incorporate reinforcing inserts, and a cutter for belts of such a. kind". (Convention date 15th March 1995), France.

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542/Del/96. RFN Technology. Inc., U.S.A., "Fabrication and use of a sub-micron dimensional standard".

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14-03-96

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554/Del/96. Assidoman Packaging UK Limited. U.K. "Crate Compatible Multipacks". (Convention date 15th March 1995), U.K.

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18-3-1996

559/Del/96. R. S. Tikla, New Delhi. "Improvement in Electric Motor".

560/Del/96. Ranbaxy Laboratories Limited, New Delhi. "Process for producing Cephalosporin Antibiotics".

561/Del/96. The Procter & Gamble Company, U.S.A. "Biodegradable polymeric compositions and products thereof".

562/Del/96. Interbold, U.S.A. "Seamless Paper Media Gate". (Convention date 17th April 1995), U.S.A.

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566/Del/96. Colgate-Palmolive Company, U.S.A. "Toothbrush with improved efficiency". (Convention date 22nd March 1995), U.S.A.

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572/Del/96. Mr. Deepak Pahwa, New Delhi. "Method for the coating of heat exchange and dehumidification media".

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584/Dtl/96. Max India Limited. Punjab. "A transfer foil and to process for the preparation thereof",

585/Del/96. Max India Limited, Punjab. "A metallized transfer foil and to a process for the preparation thereof".

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587/del/96. Sony Corporation, Japan. "Scanning switch transistor for solid-state imaging device". (Convention date 22nd March 1995), Japan.

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589/Del/96. Flamel Technologies France. "Photochromic Spiropyrans compositions and articles in which they are present". (Convention date 24th March 1995), France.

590/Del/96. The Gillette Company, U.S.A. "Safety Razor". (Convention date 23rd March 1995), U.K.

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592/Del/96. Homas Engineering Ag., Switzerland, "Unit for the production of long pipes by the centrifugal casting process".

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21-3-1996

595/Del/96. Astra Akticbolag, Sweden. "New Peptides with Immunomodulatory effects". (Convention date 24th March 1995), Sweden.

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607/Del/96. Pretoria Portland Cement Company Limited, South Africa. "Precipitated Calcium Carbonate Crystal Formation",

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25-03-96

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641/Del/96. Council of Scientific and Industrial Research New Delhi "The Solid State Ag-battery".

642/Del/96. Council of Scientific and Industrial Research, New Delhi "A process for making value—added products such as Ceramic Tiles".

643/Del/96. Council of Scientific and Industrial Research, New Delhi "A process for the preparation of Solid Electrolyte useful for Electrochemical devices".

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647/Del/96. Council of Scientific and Industrial Research, New Delhi "An improved process for the preparation of Transparent/clear rosin from cashew nut shell liquid/Cardanol/Anacardic Acid/Cardol by the method of Methacrylation and Polymerization".

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655/Del/96. Council of Scientific and Industrial Research, New Delhi "A Hingeless Control Surface".

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639/Del/96. Council of Scientific and Industrial Research, New Delhi "A process for the oxidation of paraffins to primary alcohols".

660/Del/96. Council of Scientific and Industrial Research, New Delhi "An improved process for preparation of betaxolol".

661/Del/96. Council of Scientific and Industrial Research, New Delhi "An improved process for manufacture of Epichloromydrin".

662/Del/96. Council of Scientific and Industrial Research, New Delhi "An integrated process for production of Linear Alkyl Benzenes".

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664/Del/96. Council of Scientific and Industrial Research New Delhi "A process for the preparation of geranyl nitrite from lemon grass oil".

665/Del/96. Council of Scientific and Industrial Research, New Delhi'"An improved process for the separation of Giberellic Acid from the fermented broth containing other Gibberellins".

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690/Del/96. Council of Scientific and Industrial Research, New Delhi, "A process for the preparation of new potent nontoxic Lipopoly saccharide(LPS) useful for preventing endoloxmia or spesis".

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702/Del/96. Prodes S.A.. Spain "Nitric esters from derivatives of 2-(2. 6-dihalophenylamino) phenvlacetoxvacetic acid and their preparation process" (Convention Date 19th April, 1995) - Spain.

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COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules. 1972 before the expiry of the said period of four months, given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or wtihin one month of its date as prescribed in Rule 36 of the Patents Rules, 1972,

The classifications given below, in respect of each specification are according of Indian Classification and International Classification.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं । विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए ।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप हैं ।"

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई, हों के साथ विनिर्देशों की अंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है । विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके, (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है ।

Ind. Cl. : 45E, 170D & B. 177395

Int. Cl.[4] : C11D 1/00, 1/02, 1/12, 1/20, 1/26, 1/28, 1/68, 1/70, 1/825, 3/40, 3/48, 3|50, 7|00.

A LAVATORY CLEANSING COMPOSITION AND PROCESS FOR PREPARING THE SAME.

Applicants : RECKITT & COLMAN OF INDIA LTD., OF 41 CHOWRINGHEE ROAD, CALCUTTA-700 071, INDIA.

Inventors : 1. RAJIV KHURANA,
2. N. DASGUPTA,
3. D. DASGUPTA.

Patent Application No. 503/Cal/1992 filed on 15th July, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

29 Claims.

A lavatory cleansing composition comprising of :
active consituents

a. detergent is an amount of 5-80% w/w of the total composition selected from anyone or more of :

i, an ionic detergent 5-80 w/w, ii. stearyl alcohol ethoxylate with 2 moles of ethylene oxide condensate 5—30% w/w, iii. ethoxylated nonyl phenol having a number of moles of Eto varying between 3 & 10 moles 5-30% w/w, iv. sodium lauryl sulphate (purity between 30-95%) 5-80% w/w, v, sodium lauryl ether sulphate 5-80% w/w. vi mono

ethanol amide 5—30 % w/w, vii. alwyl phenol ethylene oxide condensate 5—30% w/w, viii, fatty alcohol ethylene oxide condensat 5—30% w/w, ix, fatty acid esters 5—30% w/w x. sorbitol fatty acid esters 5—30% w/w, xi. ethoxylated corpital ester 5—80% w/w and xii. alpha olefin sulphonic acid, sodium salt 5-80% w/w. and

b. disinfectant/germicides such as herein described in an amount of upto 5% w/w of the total composition

and optional additives such as 0.5—10% w/w as herein described ; 0.1—5.0% w/w perfuming agents as herein described, 1—30% w/w filler material as herein described, and —25% w/w binders as herein described of the total composition.

(Prov. Specn 7 Pages. Comp. Specn. 14 Paces: Drwg. Nil)

Ind. Class - 157-B 177 111

Int. Cl. [4] - B61 D 3/12

A RAMP DEVICE FOR CONNECTION OF HIGHWAY TRAILERS TO RAILTRUCKS.

Applicant : WABASH NATIONAL CORPORATION. A DELAWARE CORPORATION. OF 1000 S SAGAMORF PARKWAY, LAFAYETTE, INDIANA-47905, U.S.A.

Inventors : (1) THOMAS F. KEALEY
(2) HARRY O. WICKS
(3) GARY D. CHRISTEN
(4) RICHARD L. JONES
(5) KENNETH E. COMBS
(6) THOMAS G. DONKIN

Application No. 446/MAS/90 filed June 6, 1990.

Convention date : September 18, 1989; (No. 611,752, Canada).

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules. 1972), Patent Office, Madras Branch.

11 Claims

A rump device for connection of highway trailers to railtrucks for intermodal transportation, said device comprising : a highway trailer having a main frame and at least one highway wheel assembly; said highway Mailer having a first coupling means adjacent the lower rear thereof; a railtruck having a pair of side frames and a bolster supported on said side frames; said railtruck having a second coupling means supported thereby, said second coupling means and said first coupling means being selectively matable and releasable; and ramp means having an ascending portion for raising the level of said trailer frame into a raised position above said railtruck and a descending portion for lowering the level of said tralier frame into an operative position on top of said railtruck.

(Comp. Specn. 38 pages: Drwgs. 11 sheets)

Ind. Class - 65-B[3] & 69-E 177412

Int. Cl[4] : H 01 F 29/00.

TAP SELECTOR FOR A TAPPED TRANSFORMER.

Applicant ; MASCHJNENFABRIK REINHAUSEN GMBH, OF FALKENSTEINSTRASSE 8 8400 REGENSBURG. FEDERAL REPUBLIC OF GERMANY, A COMPANY ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY. A COMPANY ORGANIZED UNDER THE LAWS 01- THE FEDERAL REPUBLIC OF GERMANY.

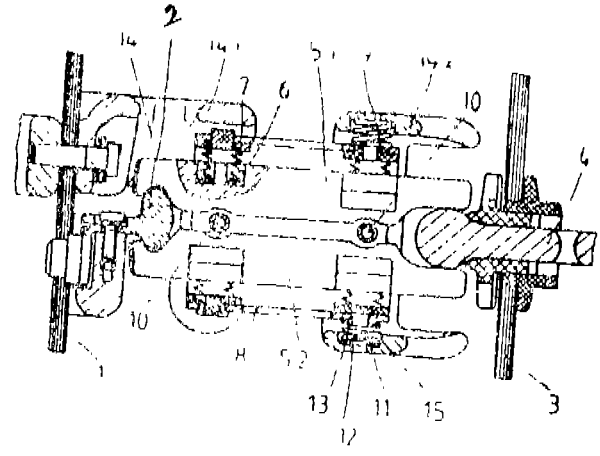
Inventor: ROLF LAUTERWALD, F.R.G.

Application No. 448/MAS/90 filed June 7, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule?, 1972), Patent Office, Madras Branch.

A tap selector for a tapped transformer, wherein the selector comprises a cylinder, a pluality of fixed ap contacts mounted in a circle at the wall of the cylinder, a selector column arranged in the cylinder, a contact ring mounted on the selector column and extending around the column concentrically with the tup con acts, a drive tube rotatable about the selector column, a contact bridge housing mounted on the drive tube and divided into a radially inner housing part connected to the drive tube and a radially outer housing part connected to the inner housing party by way of spacer menus, a plurality of contact member pans disposed in the housing and each comprising an upper contact member and a lower contact member which are individually movable and which press from above find below against the contact ring and a selectable one of the tap contacts, a plurality of intermediate frames each arranged in the housing around a respective one of the contact member pairs, first resilient means movably and resiliently supporting the upper and lower contact members of each contact member pair relative to the associated intermediate frame, and second resilient means movably and and resiliently supporting each intermediate frame relative to the contact bridge housing.

Agents : M/s. DePening & Depenning.



(Comp. Specn. 9 pages . Drwgs. 1 sheet)

Ind. Class - 172-C_1 177413

Int. Cl.[4] - D 01 G 15/24.

A CLIP FOR ENGAGING A CARD CLOTHED TOP AND A FLAT IN A CARDING MACHINE.

Applicant : CARCLO ENGINEERING GROUP PLC, OF ACRE STREET; LINDLEY, HUDDERSFIELD, WEST YORKSHIRE, ENGLAND, A BRITISH COMPANY.

Inventors : (1) KEITH GRIMSHAW
(2) BRAIN JOSEPH ENNIS.

Application No. 454/MAS/90 filed Juno 11, 1990.

Convention date : June 14, 1989 ; (No. 8913668.3 ; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules. 1972), Patent Office, Madras Branch.

13 Claims

A clip for engaging a card clothed top (10) and a flat in a carding machine in order to secure the card clothed top in position on a main surface of the flat flanges (34) of the flat, the said clip comprising a median spine portion (20). a: first inward formation (22) from the said medium spine portion for engagement with the card clothed face of the top, a preformed second inward information (60) from the median spine portion for location over a flange of the flat and for engagement with tensioning means (62, 64)" so that the first inward formation is pressed towards the main face of the flange.

(Comp. Specn. 25 pages. Drwgs 3 sheets)

Ind. Class - 97-A & 108-C 177414

Int. Cl.[4] • C 21 B 13/12
C 21 C 5/52 .

AN IMPROVED METHOD AND APPARATUS FOR MANUFACTURING IRON PRODUCTS FROM IRON-BEARING PARTICULATE MATERIALS IN A METALLURGICAL FURNACE.

Applicant : HYLSA S. A. DE C. V., APDO, POSTAL 996, MONTERREY, N.L., MEXICO, A CORPORATION UNDER THE LAWS OF UNITED MEXICAN STATES.

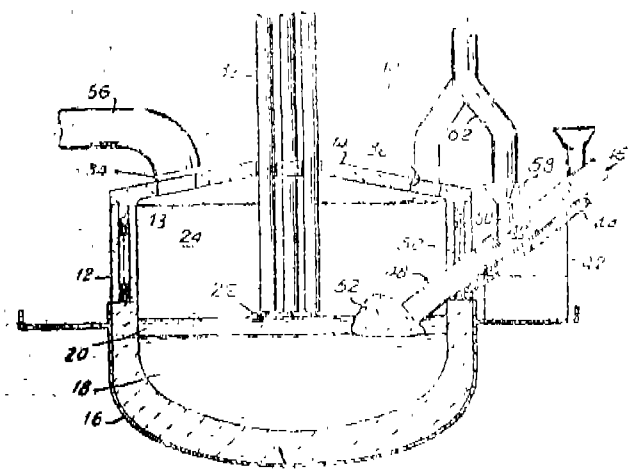
Inventors ; (I) MARCO ANTONIO HERRERA-GARCIA;
(2) RODOLFO ARNOLDO DE LA GARZA VILLARREAL

Application No. 483/Mas /90 filed June 18, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules. 1972), Patent Office, Madras Branch.

9 Claims

An improved method for manufacturing iron products from iron-bearing paniculate materials in a metallurgical furnace of the type for containing a bath of liquid iron and a layer of slag covering said bath and having upper side walls above said slag for containing gases radiant heat etc. the improvement comprising the steps of forming a bath of molten iron with an upper slag layer in said furnace, introducing the lower delivery end of an elongated feeder through a hole in the upper side wall of said furnace to an operative position at least closely adjacent said slag layer, pushing said non-bearing particulate material down into said slag layer by means of such feeder in the direction of the molten iron bath, and continuously charging the iron-bearing particles via said feeder into the molten iron at about the rate that the charge is melted in the furnace.



(Comp. Specn. 24 pages : Drwgs. 2 sheets)

Ind. Class - 190-B&C 177415

Int. Cl.[4] - B 23 P 6/00

APPARATUS FOR MAKING A NEW TURBINE BLADE FROM A DAMAGED TURBINE BLADE.

Applicant : REFURBISHED TURBINE COMPONENTS LIMITED A BRITISH COMPANY, OF GEORGE BAYLISS ROAD, DROITWICH, WORCESTERSHIRE, WR9 9AB, UNITED KINGDOM.

Inventor : MICHAEL JAMES FRASER, UNITED KING DOM.

Application No. 491/MAS/90 filed June 19, 1990

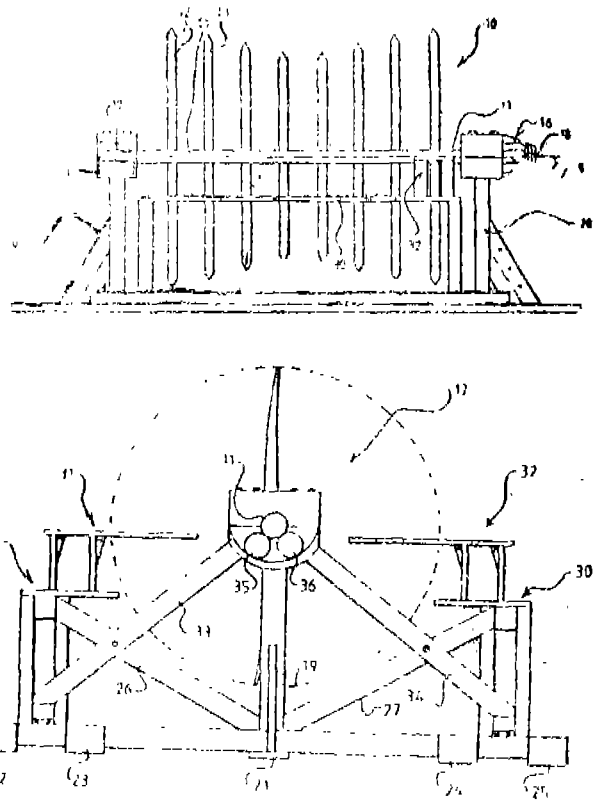
(Convention date : June 20, 1989; (No. 8914156.8 ; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch. "

20 Claims

Apparatus for making a new turbine blade from a damaged turbine blade comprising a stand having a base part having a pair of upwardly extending support parts, said support parts carrying support means for rotationally and stationarily engaging a turbine rotor at positions specified along its longitudinal axis, and rotating work station means located relative to said base part, said work station means comprising at least one work surface, wherein when a turbine rotor having arrays of rotor blades is supported by said stand, said work surface is extendable adjacent to a turbine blade on one of said arrays in a direction along said blade radially or substantially radially of said rotational axis.

Agents : M/s. DePenning & DePenning.



(Comp. Specn. 18 pages; Drwgs. 3 sheets)

Ind. Class-165-C 177416

Int. Cl.[1] - D 05B 19/00.

COMPUTERISED SWING MACHINE,

Applicant : MEFINA S A, BOULEVARD DE PEROLLES 5, 1700 FRIBOURG. SWITZERLAND, A SWISS COMPANY.

Inventors : (1) TSCHOPP GERARD, SWITZERLAND
(2) BUCHILLY CLAUDE, SWITZERLAND
(3) KOHLI CHRISTIAN ROBERT, SWITZERLAND

Application No. 509/MAS/90 filed June 25, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A computerised sewing machine comprising : first control means for controlling reciprocal axial movement of a sewing

needle for penetrating a material to be seen and a loop pick-up device for cooperating with the needle for forming a sewing stitch; second, control means tor controlling relative displacement of the needle and the material in two orthogonal directions with a specific amplitude in each direction; at least one electronic memory in which computerised sewing instructions are stored said instructions corresponding to a plurality of different designs or patterns, said designs or patterns comprising letters and signs belonging to at least two different styles of alphabet, swing instructions tor the letters and signs of each alphabet being embodies in a specific memory bank, the reference address. tor the beginning of the memory bank for each alphabet being different; first selection means lor selecting the letter or the sign to be sewn ; microprocessor means for reading from said electronic memory sewing instructions corresponding to the design or pattern selected by said first selection means and for controlling the second control means in accordance with said instructions so as to sew the selected design or pattern, on said material; second selection means for selecting the style of alphabet in which the letter or the sign selected with said first selection means is to be sewn ; each memory bank comprising an address section for locating, within the memory bank, instructions for a particular letter or sign, address information being disposed within said address section in a predetermined order, said address information being individual to each letter or sign and identical for each alphabet ; said first selection means comprising a keyboard for selecting a particular letter or signal by inputting a code corresponding to the address information assigned to that letter or sign in the address section of ten memory bank of a default alphabet of said alphabets ; said second selection means comprising a memory element containing at least a first value corresponding to the address of the beginning of the memory bank containing data for the letters and signs of the default alphabet, and at least a second value corresponding to the space in the memory element separating the beginning of the memory bank for the default alphabet from the beginning of the memory bank containing data for the letters and signs of the second alphabet style; indicator means for indicating to the microprocessor the alphabet style selecccd bysaid second selection means; means for forming a composite address value by adding at least said first value to the value of the code selected by the first keyboard selecting means, said composite address identifying the portion of memory containing specific instructions tor controlling said second control means so that the design or pattern corresponding to the letter or sign selected and the alphabet style selected is sewn on the material.

Agents : M/s. DePenning & DePenning

(Com. - 21 Pages; Drwgs, - 2 sheets)

Ind. Class : 128-A 177417

Int. Cl.[4] : A 61 L 15/00

AN ORTHOPEDIC ARTICLE

Applicant: MINNESOTA MINING & MANUFACTURING COMPANY, A DELAWARE CORPORATION, OF 3M CENTER, ST. PAUL, MINNESOTA 55144-1000, U.S.A.

Inventors : (1) CHARLES CHRISTOPHER POLTA
(2) MATTHEW THOMAS SCHOLZ

Application No. 538/MAS/90 filed July 5, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

An orthopedic article comprising a fabric sheet and a water-curable isocyanate-functional prepolymer resin such as herein described, coated onto said fabric sheet, said prepolymer resin having a stable dispersion of hydrophobic polymeric particles such as herein described therein.

(Com—43 pages)

Ind. Class—206-E 177418

Int. Cl.[4] : G 06 F 13/26

PROGRAMMABLE INTERRUPT CONTROLLER

Applicant : INTERNATIONAL- BUSINESS MACHINES CORPORATION,- A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF ARMONK, NEW YORK 10504, U.S.A.

Inventors: (1) AVERY MARTIN LYFORD, USA. (2) DENNIS LEE MOLLER, U.S.A. (3) PETER JUERGEN KLIM, WEST GERMANY.

Application No. 587/Mas/90 filed on July 24, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A programmable interrupt controller comprising :

a plurality of interrupt request inputs;

a fast initialization command register having a plurality of bits, a respective one of the bits corresponding to each of the interrupt request inputs, each of the bits having a first state corresponding to edge-triggering end a second state corresponding to level-triggering, the bits being programmable between the first and second states on a per bit basis; and

an interrupt request register having a plurality of stages, a respective one of the stages corresponding to each bit and each interrupt request input, each of the stages having :

(a) an edge detector comprising an edge detector latch having a data input connected to the respective interrupt request input and an data output and operative when the respective bit of said first initialization command register is programmed to the first state for receiving an edge-senitive interrupt request and latching the request to a level converted latch command to receive and latch an interrupt as a level,

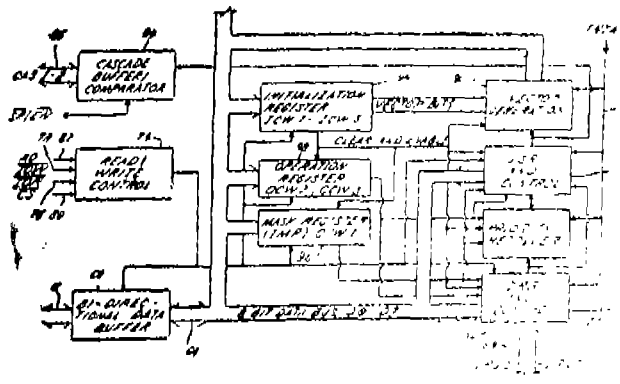
(b) a metasble latch connected to receive a level-triggered interrupt request when the respective bit is programmed to the second state and connected to receive the interrupt request held as a level by said level converter latch when the respective bit is programmed to the first

state, said metastable latch connected to receive a system clock for latching the interrupt request, thereby providing an interrupt request synchronized with the system clock, and

(c) an interrupt request register latch connected to receive and hold the synchronised interrupt request from the metastable latch.

Agents: M/s. DePenning & DePenning

FIG 2



(Com.—43 pages; Drawgs.—10 sheets).

Ind. : 107-G 177419

Int. Cl.[4]—F 02 M 27/00

A DEVICE FOR IMPROVING THE FLOW, CHARACTERISTICS, OF PARTICULATE MATERIAL, FLUIDS, ELECTRICITY AND ELECTRO-MAGNETIC WAVES.

Applicant & Inventor : VELAGAPUDI MARUTHI RAO, AN INDIAN CITIZEN OF 5, DAMADARAPURAM, VANNANTHURAI ROAD, ADAYAR, MADRAS-20, TAMIL NADU.

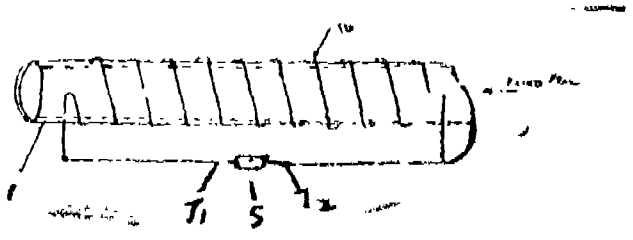
Application No. 657/MAS/90 filed August 17, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A device for improving the flow characteristics of particulate material, fluids, electricity and electro-magnetic waves, computing at least one coil of predetermined diameter and length made by winding a predetermined number of turns of an electrical conducting wire of predetermined cross-section on a core of electrical conductor insulated from wire, or a hollow former of electrical insulator filled with an electrolyte, wherein the two opposite terminals of said coil are connected together.

Agents : M/s. DePenning & DePenning



(Com.— 10 pages; Drwgs.—1 sheet)

Ind. Class : 185-E 177420

Int. Cl[4] : A 23 F 3/00

A METHOD AND AN APPARATUS FOR PREPARING PROCESSED TEA LEAVES

Applicant : GEORGE WILLIAMSON & CO. LIMITED, A BRITISH COMPANY, OF SIR JOHN LYON HOUSE, 5 HIGH TIMBER STREET, UPPER THAMES STREET, LONDON, EC4V 3LD, ENGLAND.

Inventors : (1) ALAN L. CARMICHAEL
(2) JOHNM. TRINICK

Application No. 663/MAS/90 filed August 21, 1990.

Convention date : April 26, 1990; (No. 9009441.8; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims

A method of preparing processed tea leaves comprising the steps of withering tea leaf till its moisture content is reduced, rupturing the cells of the said withered leaf mechanically to commence fermentation process, drying the said fermented withered leaf to a maximum moisture content of 4%, optionally, grading and sorting the said processed dried leaf and simultaneously vacuum packing the same in a known manner into bags holding not less than 20 kgs. of tea per bag.

(Com.—10 pages; Drwgs—2 sheets)

Ind. O. : 189 Gr. [LXVI (IX)] 177421

Int. Cl. : A 61 K—7/11

AN AQUEOUS HAIR TREATMENT COMPOSITION

Applicants : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913 OF HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, MUMBAI 400 020 MAHARASHTRA. INDIA,

Inventors : 1. G. JAE LEE
2. PAUL VINSKl

Application No. 409 /BOM/92 filed on 18-12-1992.

Appropriate Office for opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Mumbai-400 013.

10 Claims

An aqueous hair treatment composition comprising :

(i) a water-insoluble, dispersible polymeric resin such as herein described having a biscosity of less than about 2 centipoise at 25°C when 10% is dispersed in water, present in an amount from about 0.5 to about 10% by weight;

(ii) a water soluble polymeric resin such as herein described having a viscosity greater than about 6 contipoise at 25°C when 10% is placed in water, present in an amount from about 0.5 to about 10% by weight; and

(iii) polyvinyl pyrrolidone of molecular weight greater than 500,000 present in an amount from about 0.05 to about 0.2% by weight.

(Comp. specn. 17 Pages, Drgs. Nil)

177422

Ind. Cl. as 178 A Gr. [XLIII (4)]

Int. Cl. :- C 11 D = 1/37, 1/83, 1/94
A 61 K = 7/50

Title :- CLEANSING COMPOSITION FOR SKIN & HAIR

Applicants :- HINDUSTAN LEVER LIMITED
A COMPANY INCORPORATED UNDER THE
INDIAN COMPANIES ACT, 1913, OF
HINDUSTAN LEVER HOUSE, 165/166
BACKBAY RECLAMATION, BOMBAY- 400 020
MAHARASHTRA, INDIA

Inventors :- 1. DESMOND BERNARD HAGAN
2. PETER CARTER

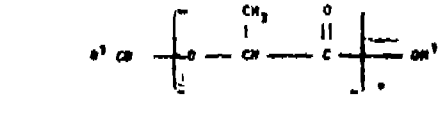
Patent Application No. 57 BOM 93 FILED ON 26-03-93
U.K. PRIORITY DATED 27-03-92.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch Bombay - 400 013.

8 CLAIMS

A cleansing composition for skin and hair which comprises in addition to water,

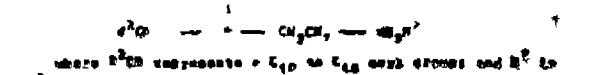
(a) from 10 to 35% by weight of one or more acyl isethionate(s) of the following structure (1)



where R^1CO represents a C_8 to C_{16} acyl radical; n is an integer from 1 to 3; M^+ represents hydrogen or a quaternium chosen from alkali metals, ammonium or a substituted ammonium group having one or more C_1 to C_3 alkyl or hydroxy alkyl group(s) and

(b) from 5 to 25% by weight of one or more non-surfactants chosen from the following compounds (A) to (E):

(A) N-methyl-N-acyl taurates of the following structure (2)



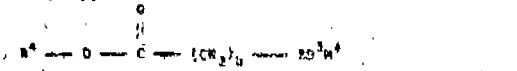
where R^2CO represents a C_{10} to C_{18} acyl group; and R^2 is as R^1 in structure (1).

(B) Sarcosinates of the following structure (3)

contd...2

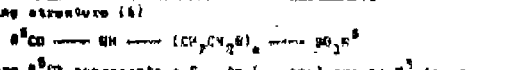
where R^3CO represents a C_{10} to C_{18} acyl groups and M^3 is as M^1 in structure (1) ;

(c) Alkylamides of polyhydroxy fatty acids of the following structure (7)



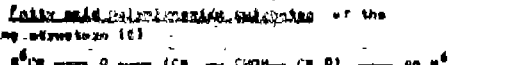
where R^4 represents a C_{10} to C_{18} alkyl group; R^4 is as R^1 in structure (1); and (b) is an integer from 1 to 3;

(d) Fatty acylamides of ethylenediamine sulphates of the following structure (8)



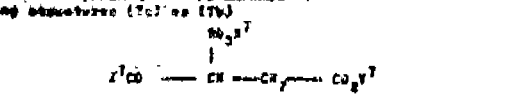
where R^5CO represents a C_{10} to C_{18} acyl group; M^5 is as M^1 in structure (1); and C is an integer from 1 to 40 ;

(e) Fatty acid polyhydroxyalkyl sulphates of the following structure (9)



where R^6CO represents a C_{10} to C_{18} acyl group; M^6 is as M^1 in structure (1); and n is an integer from 1 to 4;

(f) Mono substituted succinamates of the following structure (Ta) or (Tb)



where Z^7 is chosen from the following groups (i) to (iii):

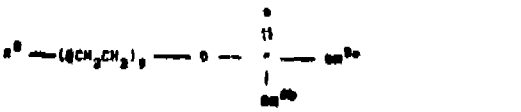
(i) $R^8CO - NH - (CH_2CH_2O)_n$ - where R^8CO represents a C_{10} to C_{18} acyl group; and n is an integer from 1 to 10;

(ii) $R^8 - O - (CH_2CH_2O)_n$ - where R^8 represents a C_{10} to C_{18} alkyl group; and n is an integer from 1 to 10;

(iii) $R^8 - O$ - where R^8 represents a C_{10} to C_{18} alkyl groups; and

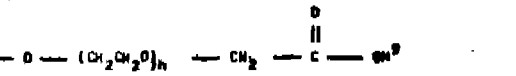
X^7 and Y^7 are independently from each other chosen from the counterions represented by M^1 in structure (1) ;

(g) Mono substituted monoglycerides of the following structure (9)



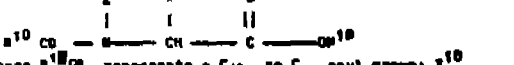
where R^9 represents a C_{10} to C_{18} alkyl groups; M^{9a} and M^{9b} are independently from each other chosen from the group of species represented by M^1 in structure (1); and g is an integer from 0 to 3 ;

(h) Alkyl polyethylene glycol carbonates of the following structure (9)



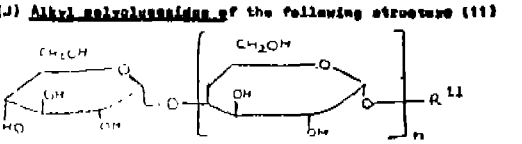
where R^9 represents a C_{10} to C_{18} alkyl groups; M^9 is as M^1 in structure (1); and h is an integer from 1 to 10;

(i) Salts of N-acyl-N-methyl amino acids of the following structure (10)



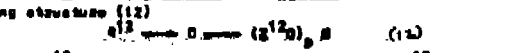
where $R^{10}CO$ represents a C_{10} to C_{18} acyl group; Z^{10} represents N or C_1 to C_2 alkyls; Y^{10} represents NR_1 to C_3 alkyl or C_1 to C_3 alkyl substituted with a COOH group; and M^{10} is chosen from the counterions represented by M^1 in structure (1);

(j) Alkyl polyglycosides of the following structure (11)



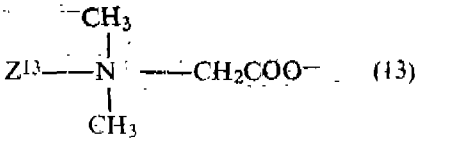
where R^{11} represents a C_{10} to C_{14} alkyl groups and n is an integer from 1 to 3;

(k) Poly(oxyalkylene) fatty alkyl ethers of the following structure (12)



where R^{12} represents a C_8 to C_{18} alkyl groups Z^{12} is a C_2 or C_3 alkylene group; and p is an integer from 1 to 10;

(l) N-substituted betaines of the following structure (13)



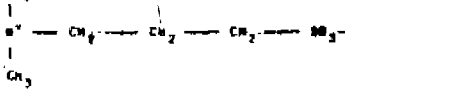
where Z^{13} represents

where Z^{13} represents

(i) a C_{10} to C_{18} alkyl groups; or

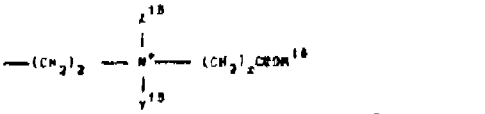
(ii) a $R^{13}CO - NH - (CH_2)_3$ groups, where $R^{13}CO$ represents a C_{10} to C_{18} acyl groups;

(m) Betaines of the following structure (14)



where Z^{14} represents a C_{10} to C_{18} alkyl group or a C_{10} to C_{18} acyl amido group;

(n) Alkyl amphoacetates of the following structure (15)



where $R^{15}CO$ represents a C_{10} to C_{18} acyl group; Z^{15} and Y^{15} are independently from each other chosen from NH, CH_2CH_2NH or $(CH_2)_1COO$; c is 1 or 2; and M^{15} is as M^1 in structure (1);

the composition having a foam height of more than 130mm, as measured by the foam height test described herein

Complete specification = 49 pages; Drawings = Nil

Ind. Cl. : 113 I (XXX) 177423

Int. Cl. : B 60 Q-1/08.

AN AUTOMATIC DEVICE FOR CONTROLLING OF DIPPER USED FOR HEADLIGHTS OF AUTOMOBILES

Applicant & Inventor : VINAY KUMAR SHRIDHAR AT OFFICE OF THE DY. DIRECTOR OF INSPECTION, 106/13, DR. KETKAR ROAD, 'SURAD' ERANDAVANA, PUNE 411 004. INDIA.

Application Mo. : 62/BOM/93 filed on 04-03-93 & 23-08-93

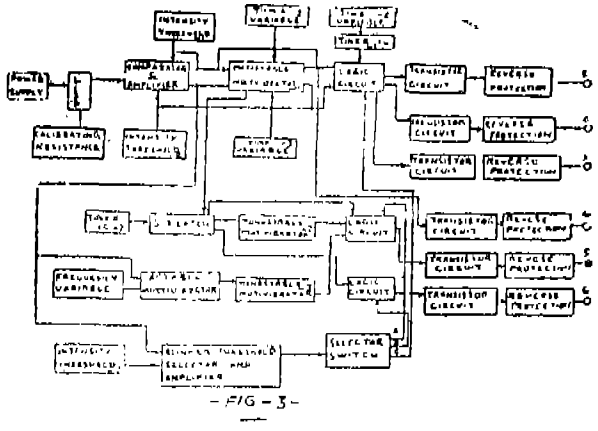
Complete after provisionals on 02-06-94

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

7 Claim

An automatic device for controlling dipper used for headlights of automobiles, comprising of a light intensity sensing devicc(s) having a calibrating resistance provided to a light dependent resistor or the like, rigidly fixed in a swivellable socket and capable of setting for receiving the optimum light from incoming automobiles, output of the said light intensity sensing device being connected to a comparator and amplifier integrated circuit having two light intensity threshold potentiometers first of which adjustably set for low light intensity threshold output of which having connected to one of the two monostable multivibrators being provided with two time variable potentiometers, one setting a small time duration on condition for both the left hand and right hand side parking lights provided to the headlights of the automobile while the second time variable potentiometer setting a set time duration for on condition of left hand side low beam lamp through the said logic circuit, the said

logic circuit having provided with a timer integrated circuit with time variable potentiometer setting a small time duration signalling second on condition of the left hand side parking light just after off position of the above said low beam lamp, second of the two said light intensity threshold potentiometers setting two different light intensity thresholds having adjustably set for high light intensity threshold and very high intensity threshold, output or the said high intensity threshold is connected to second of the 6aid two monostable multivibrators generating two signals one for on condition of left hand side low beam lamp at the below the said low light intensity threshold and the another sign 1 is fed to an astable multivibrator and second of the said monostable multivibrators through a logic circuits to right hand side low beam lamp, the said stable multivibrator controlling the blinking having frequency variable potentiometer and monoslable multivibrator controlling its on-off time and the said logic circuits keeping the said right and side low beam lamp in the same state of blinking condition at and above the said high light intensity threshold, the said logic circuits having provided set-reset latch and timer integrated circuit selling right hand side high beam lamp in off condition at time when parking light is in on condition and reset putting it in on condition at time when said state of blinking of the said low beam lamp on the right hand side is over, the said logic circuits switching off the said left hand side low beam lamp either after the said set time duration for its on condition or on attaining the said high intensity threshold, whichever is earlier transistor circuits: having resistor, transistor, diode and the said reverse protection circuits; each having suitable diode, and light emitting diode being provided separately before each outputs for the said parking lamps, low beam lamps and high beam lamps on right hand and left hand sides of the headlight, the said circulatory being suitable for "keep to the left" mode of traffic.



– FIG – 3 –

(Provi. Specn. : 3 Pages Drgs. : Nil)
(Provi Specn. : 15 pages Drgs. : 15 pages)
(Com. Specn 22 pages Drgs : 5 sheets)

Ind. Cl. : 98 I [VII(2)] 177424

Int. Cl. F 24 J 2/00; 2/04, 2/24.

AN IMPROVED SOLAR HEAT COLLECTOR.

Applicants : DR. PRAVIN HUKUMCHAND CHORDIA, SUPARSHWANATH SOCIETY, MARKET YARD ROAD, PUNE-411 037, MAHARASHTRA STATE, INDIA,

Inventor :

Application No. : 110/BOM/1993 filed on 20-4-1993.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

1 Claim

An improved solar heal collector comprising a plurality of double walled solar heat collector units attached to a header having an inlet for coldwater at one end and an outlet for hot water at the other end, each of the said solar heat collector unit consist of a double walled glass tube having an outer-glasstubeandaninnerglasstubeprovidedwitha gap between the two side walls the said inner and outer glass tubes being sealed at their bottom end maintaining a gap between the bottom ends of the two tubes, the outer tube being provided with a nipple which is adopted to be sealed after removing air from the gap to create portial vacuum between the two tubes; a block cloth tape being suspended inside the inner tube by means of a wire like means attached totheupperendofthetwotubes,theupperendsofthetwo tubes being fused together and sealingly attached at the periphery of an opening in the said header.

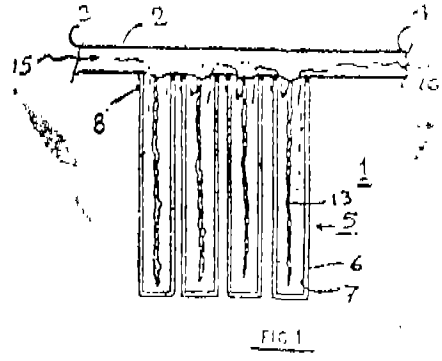


FIG 1

(Comp. specn.—5 pages. Drg 1 sheet)

Ind. Cl. : 189 Gr. [LXVI (9)] 177425

Int. Cl. : A 61 K 7/075

HAIR CARE COMPOSITION.

Inventors: HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION MUMBAI-400 020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors: (1) ANTHONY DAVID GOUGH .(2) ANDREW MALCOLM MURRAY (3) BRIAN McDONALD SMITH.

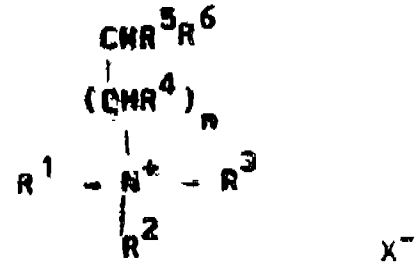
Patent Application No. 113/Bom/ 93 filed on 21-4-1993.

G.B. Priority dated 22-4-92.

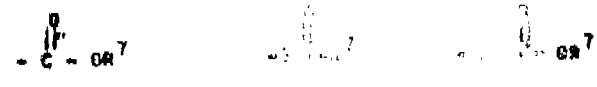
Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972). Patent Office Branch, Mumhai-400 013.

6 Claims

A hair care composition comprising (i) from 0.01 to 20% by weight of an ester-linked quaternary ammonium compound represented by the formula.



wherein n is an integer of from 1 to 8, R^1. R^2 and R^3 are each independently an alkyl or hydroxyalkyl group containing from 1 to 4 carbon atoms, of a benzyl group each R^1 and each of R^5 are independently selected from H. OH.



wherein R^7 is a linear or branched long chain alkyl or alkonyl group containing from 8 to 28 carbon as atoms ; and X is a water soluble anion;

with the proviso that at least two of the groups, selected from any R^4, R^5 and R^6 are other than H of OH ;

(ii) front 1 to 70% by weight of a C5-C20 alkyl polyglycoside; or from 0.01 to 0.5 by weight of a C8-C28 fatty alcohal or acid, or derivative thereof and (ii) from 1 to 70% by weight of a surfactant such as herein described and remainder of the composition being water and optional components as herein described.

(Comp. Specn. 25 pages Drgs. Nil)

1ml. Cl. : 156 A, E [XLVII (3)] 177426

Int. Cl. : F 04 B 9/00.

A DRIVING MECHANISM FOR THE PUMP AND A PUMP COMPRISING THE. SAME.

Applicant & Inventor : SHIV KUMAR SHARMA, AN INDIAN NATIONAL, OF AYAKAR BHAVAN, MAHARSHI KARVE ROAD, BOMBAY-400 020, MAHARASHTRA, INDIA.

Application No. 135/BOM/93 filed on 4-5-93.

Complete after Provisional filed on June 14, 94.

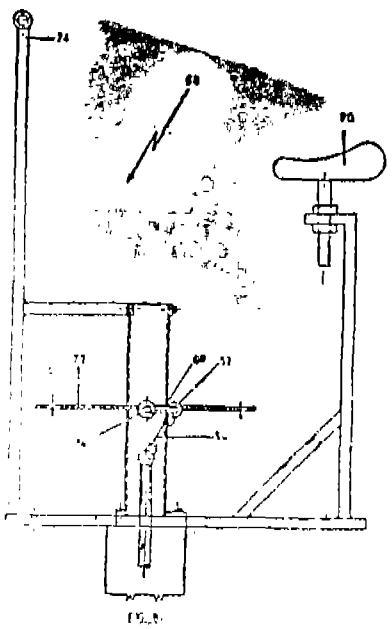
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombny-400 013.

11 Claims

A driving mechanism for a pump comprising :

a crank mechanism consisting of a crank/crankshaft and a sprocket wheel;

a connecting link means connecting the said crank mechanism to the piston or piston equivalent of a pump ; and a driving means to drive the said crank mechanism.



(Comp. Specn. 14 pages; Drgs. 8 sheets)

(Prov. Specn. 12 pages; Drgs. 6 sheets)

Ind. Cl. : 39 O, Gr. [III] & 77 D, Gr [XI (1)] 177427

Int. Cl. : C 11 B 3/00, 3 10 & B 01 J 29/14; 37/03.

PROCESS FOR PREPARATION OF ADSORBENTS,

Applicants . HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT 1913 AND HAVING ITS REGISTERED OFFICE AT HINDUSTAN LEVER HOUSE, 165-166 BACKBAY RECLAMATION, MUMBAI-400 020, MAHARASHTRA, INDIA.

Application with provisional Specification No. 224/BOM/93 filed on 19-7-93.

Complete after Provisional Specification left on 28-6-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch. Bombay-400 013.

4 Claims

A process for preparing adsorbents used in upgrading/pre-treating oils, fats and other fatty materials, comprising precipitating ions of transition metal selected from nickle and copper from a water soluble salt thereof on an adsorbent matrix selected from crystalline aluminesilicate, hydrotalcite and bentenite.

(Prov. Specn. 8 pages, Drgs. Nil)

(Comp. Specs, 10 pages; Drgs. Nil)

Ind. Cl. : 134 B Gr. [LII (1)] 177428

Int. Cl. : B 60 R 21/20.

A SELF/GRAVITATIONAL FORCE POWERED VEHICLE.

Applicant & Inventor : RAMAKRISHNA BOJA RAJU INDIAN NATIONAL AT C/O KANGA & CO. READY MONEY MANSION, 43 VEER NARIMAN ROAD, MUMBAI-400023, MAHARASHTRA, INDIA.

Patent application with Provisional Specification, No, 409/BOM/93 filed on 2-12-93.

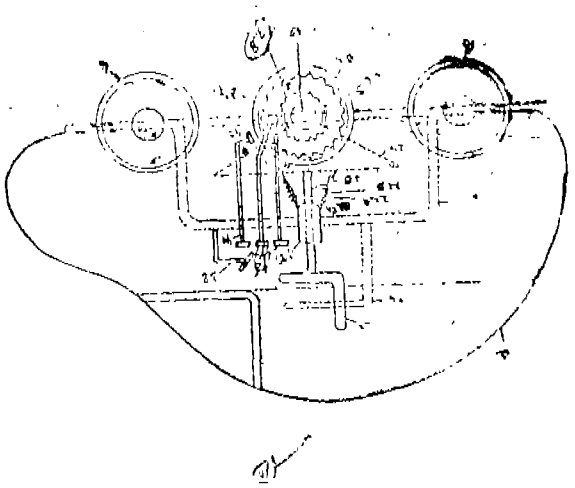
Date of filing complete after Provisional Specification 29-11-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, Mumbai-400 013.

2 Claims

Self Gravitational Force Powered Vehicle comprising of a vehicle body, mounted on a vehicle frame, the said frame being supported, preferably, on four wheels provided in two pairs a front pair and a rear pair, a bush being rigidly attached in the central part of the vehicle frame for freely passing there through a vertical shaft, a seat being mounted at the upper end of the said vertical shaft,, the lower end of the said shaft being rigidly attached to a bracket of a caster wheel, a pair of side arm being provided at the two sides of the seat, the said caster wheel being provided with a small outer gear at its hub and a large inner gear at its rim a coil spring assembly engaging and disengaging with the said smaller gear or large gear for winding-up and unwinding/releasing respectively, as desired, the said coil spring assembly consisting of a coil spring provided inside a casing one end attached to an rule and other end being attached to a pin the said pin being engaged into a pair of longitudinal slots provided in the said casing and a spur gear being attached to the said axle and a pair of spring release and engage peda's provided to the said casing and passing through the bracket of the caster wheel; a pair of

brake-cum-direction control pedals provided through the said bucket and lighting and signaling means provided with the help of a battery in the usual manner.



(Pvo. Specn. 6 pages; Drng 1 sheet)
(Comp, Specn. 9 pages: Drgns. 5 sheets)

Ind. Cl. : 55 E 4 [XIX (1)] 177429
Int. Cl. : A 61 K 35/78,

AN IMPROVED PROCESS FOR THE MANUFACTURE OF AN EXTRACT OBTAINED FROM AYURVEDIC MEDICINAL PLANT SUCH AS "ASHSVAGANDHA".

Applicants : M S J. B. CHEMICALS & PHARMACEUTICAL LTD. AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT NEELAM CENTRE. 'B' WING. WORLI BOMBAY-400 025, MAHARASHTRA (INDIA).

Inventors : (1) SHRI SHIRISH BHAGWANLAL MODY
(2) SHRI PRAVINCHANDRA MEHTA
(3) SHRI PRANABH DINESH MODY
(4) DR SHASHIKANT AVANTILAL VASAVADA

Application No. 192/BOM/94 filed on 2-5-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, Bombay-13.

4 Claims

An improved process for the manufacture of the therapeutically effective extract from ayurvedic plant material such as Ashwagandha (Withania Somnifera) comprising of the following steps : —

(a) The root of the Ashwagandha plant is graded the extraneous material is removed manually it is then shredded and powered in a hummer mill, the powder is admixed with solvent such as 50% solution of methanol in water in a Stainless Steel jacketted vessel provided with a stirrer, the mixture is stirred continuously for about 4 hours to which more of solvent is added to convert it into slurry which is further stirred continuously for about 18 to 20 hours and filtered the residue obtained is reextracted in a similar manner and the extract is filtered. the residue is expressed in a press so that the absorbed extract is recovered, the recovered extract is filtered and all the above filtered are mixed together.

(b) the residue after extraction with solvent like aqueous methanol is again extracted in a similar method as described in the specification with an aqueous acetic acid, polysorbate-20 (polyoxyethlene, 20 sorbitan mono laureate) or sulfuric acid to obtain the mixture of filtered extracts. The extracts are concentrated in a thin layer vaporiser under reduced pressure of 20 min at a lower temperature ranging between 45—55°C, the extracts are mixed together and again concentrated to the required consistency that is to thick paste or is sprary dried to get the dry powdered extract.

(Comp. Specn. 11 pages. Drgns. Nil)

Ind. Cl. : 55E 177430
Int. Cl. : A 61 K 35/00, 9/08.

AN IMPROVED PROCESS FOR HERBAL COUGH REMEDICAL PREPARATIONS.

Applicant : M/s. J. B. CHEMICALS & PHARMACEUTICALS, LTD. AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT NEELAM CENTRE, 'B' WING, WORLI BOMBAY-400 025, MAHARASHTRA (INDIA).

Inventors : (1) SHRI SHIRISH BHAGWANLAL MODY
(2) DR. MADHUKANT MANSUKHLAL DOSHI
(3) DR. MILIND DATTATRAYA JOSHI.

Application No. 86/BOM/95 filed on 24-2-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

5 Claims

An improved process for the preparation of a oral formulation in the form of a liquid syrup of the therapeutically active herbal ingredients intended to provide relief in the most commonest respiratory tract disease viz, cough whooping cough/bronchitis comprising of herbal inngredients as herein dated in this specification which comprises of the following steps :—

(i) 400 L of purified water is transferred to S. S. jacketted vessel, boiled for 10 min, cooled to 80°C to which the ingredients in the given order as stated in step II of complete specification is added to hot water, stirred thoroughly till dissolved completely ;

(ii) 700 kgs of sucrose is added to the mixture, stirred till completely dissolved to which is added 50 kgs of glycarine to form the syrup transferred to 2000 L S.S Manufacturing tank, after cleaning and steaming 1000 L. S.S. jacketed vessel.

(iii) different soft extracts in separate S.S. vessels are weighed dissolved in purified water at 80°C., aqueous solution of different extract as set out in examples 1 to 3 above are mixed in S.S. vessel, stirred for 10 minutes stored for about 18 hours at a temperature ranging between 20° to 25°C, the solution or extract is filtered through sparkler filter to which is added sugar stirred mixed thoroughly, allowed to cool, the syrup is filtered again and the pH of the syrup is checked;

(iv) pH is adjusted between 4.5 to 5.5 by addition 0 citric acid;

(v) The colour is dissolved in 3 L water at 80°C which is thereafter added to bulk syrup stirred and mixed thoroughly,

(vi) weighed quantity of menthol I.P. is added to the pineapple flavour, dissolved with stirring, this solution is added to bulk syrup stirred for 15 minutes to get a uniform syrup sufficient quantity of boiled and cooled water is added to syrup the volume is made up to 2000L. stirred mixed well, 10L syrup is collected from the bottom valve and is added at the top of the vessel, this step is repeated the solution is mixed for another 30 minutes to entire homogenous syrup, the product thus obtained is finally tested for quality standards,

(Comp. Specn. 17 pages; Drgs. Nil.)

Ind. Cl. : 37B + 108C_3 + 47C. 177431

Int. Cl.[4] : B 04C 11/00, B 65 G 65/28, 65/30, 65/32

"APPARATUS FOR RECYCLING HOT DUST FROM A MELT-DOWN GASIFIER.

Applicant : VOEST-ALPINE INDUSTRIBANLAGhN-HAU. GESELLSCHAFT M.B.H. OP TURMSTRASSE 44, A-4020 LINZ, AUSTRIA. AN AUSTRIAN COMPANY.

Inventors : (1) HERBERT MAYR
(2) DR. ROLF HAUK
(3) BODGAN VULETIC
(4) DR. WERNER KEPPLINGER.

Application No. 957/CAL/1991 filed on 27-12-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Apparatus for the recycling of hot dusts from a melt-down gasifier by way of a hot cyclone and dust bunkers, which are integrated into a pipeline system, characterized in that there is provided between the hot-gas cyclone (1) and burners (5) located on the melt down gasifier (7) a lock system which has in succession an upper dust bunker (2a), a lower dust bunker (2b) and a bucket-wheel lock (4) slide valves (3a, 3b) being arranged therebetween.

(Comp. Specn. 7 pages, Drgs. 2 sheets)

Ind. Cl. : 39 C 177432

Int. C.[4] : C 01 B 3/32, 3/34, 3/36.

A PROCESS FOR PRODUCING SYNTHESIS GAS FOR THE PRODUCTION OF AMMONIA".

Applicant : CATALYSTS AND CHEMICALS EUROPE, S.A. (BE BE). PLACED DU CHAMP DC-MARS 2. BOITE 3, B-1050. BRUXELLES (RE), A BELGIAN COMPANY.

Inventors: (1) HACQUES SCHRUMANS HEUVELHOF
(2) PATRICK DEGAND.

Application No. 132/CAL/92 filed on 27-2-92.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for preparing synthesis gas comprising heating air oxygen or steam either alone or a mixture thereof in stages in reforming reactors as herein described to a temperature between 800 and 1600°C and at a pressure of 10—100 bars absolute wherein said mixture of steam and air is preheated to 1200-1600°C before introducing into an adiabatic catalytic reforming reactor wherein said mixture of gases reacts with a hydrocarbon namely natural gas cooling down the mixture in a conventional manner and eliminating CO_2 from said mixture and purifying it in a known manner to produce the synthesis gas suitable for ammonia production.

(Comp. Specn. 14 pages; Drgs. 2 sheets.)

Ind. Cl. : 128 K, G 177433

Int. Cl.[4] : A 61 B 17/00

A SURGICAL SYSTEM FOR ASPIRATING FLUID.

Applicant: AMERICAN CYANAMID COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF MAINE, UNITED STATES OF AMERICA, AND HAVING ITS EXECUTIVE OFFICES AT ONE CYANAMID PLAZA, WAYNE, STATE OF NEW JERSEY 07470, UNITED STATES OF AMERICA.

Inventors : (1) PAUL GEORGE CONLEY (2) WANIEL LEE WILLIAMS, JR. (3) PETER FRANCIS APPLEBAUM.

Application No. 210/Cal/1992 filed on 30-3-1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta

8 Claims

A surgical aspiration system for aspirating fluid and cut tissue from an operative site through a surgical handpiece comprising ;

a. vacuum pump for creating a negative pressure within a vacuum, the chamber being in communication through a fluid conduit with a surgical handpiece ; a motor for operating the vacuum pump ; transducer means for sensing the vacuum within the vacuum chamber and for generating a first signal in response thereto ; input means for selecting an appropriate vacuum level for aspirating fluid and cut tissue and for generating a second signal which corresponds to said level; variable reference voltage source means for generating a selectively variable reference voltage ; controller means for comparing said first and second signals and the variable reference voltage and generating an output signal representing the difference as determined by the controller means between the first signal and the second signal as modified by the variable reference voltage, said output signal being connected to drive said motor and vacuum pump to control the various level within said vacuum chamber cassette 38 ;

vacuum level control valve having a known variable orifice diameter to provide a pre-determined air flow into the vacuum pump to assist the motor and vacuum pump providing a precisely controlled vacuum at an efficient motor speed ; and pinch valve means provided on said fluid conduit to separately constrict the flow of fluid being aspirated by the surgical handpiece into the vacuum chamber in response to an input command from the controller means.

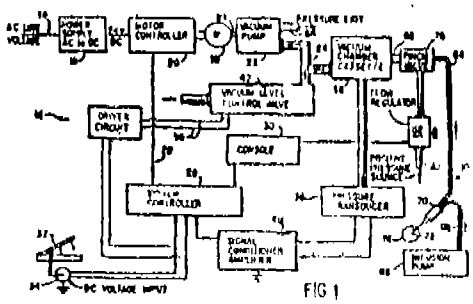


FIG 1

(Compl. 19 pages Drawings 3 Sheets)

Ind. Class : 59A 177434

Int. Cl.[4]: E 02 B 13/00

IRRIGATION SYSTEMS.

Applicant : HYDRO-PLAN ENGINEERING LTD. AN ISRAELI COMPANY, SCIENCE BASED INDUSTRIES PARK, P.O. BOX 58185, TEL-AVIV 61581 ISRAEL.

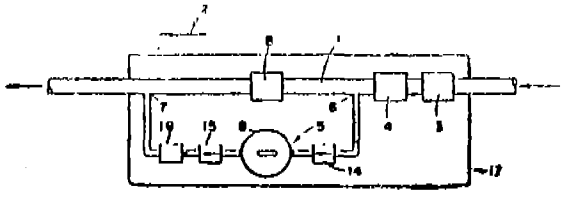
Inventor: RAPHAEL MEHOUDAR.

Application No. 253/Cal/1992 filed on 13-4-1992.

Appropriate Office for Opposition Proceedings (Rule 4. Patents Rules, 1972). Patent Office, Calcutta

14 Claims

An irrigation system comprising an irrigation supply conduit; characterised in that an impregnated material (11) is located in line with said conduit, a scaled container (9) in which said impregnated material (11) is located end which has a flow inlet (9a) designed to be flow-coupled to an upstream portion of the conduit and a flow outlet (9b) designed to be flow-coupled to a downstream portion of the conduit, with a flowpath in the container (9) between the flow inlet (9a) and the flow outlet (9b) extending through at least a major dimension of the container (9), wherein said impregnated material is adapted for release of a known herbicide into the throughflowing liquid.



Compl. Specn. 12 Pages Drawings 1 sheet

Ind. Class. : 69 A.I. 177435

Int. Cl.[4] : H 01 H 9/54

AN ALARM ASSEMBLY FOR A CIRCUIT BREAKER.

Applicant: EATON CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA OF EATON CENTER, 1111 SUPERIOR AVENUE, CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors : ANTHONY JOHN FISHOVITZ, (2) ALLAN VINCENT HEBERL1NG, (3) THOMAS KENNETH FOGLE, (4) MICHAEL W. CHLYSTEK.

Application No. 276/Cal/92 filed on 22-4-1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

1. An alarm assembly for a circuit breaker contained within the howling (10) of the latter and comprising a trip mechanism for interrupting current through said circuit breaker when a predetermined current condition is reached and which is operatively associated with a flux shunt trip device (15) having a spring-loaded plunger movable between an extended position and a retracted position, said plunger under normal operative conditions being retained in said retracted position by a permanent magnetic flux acting against the force of said spring and adjacent said plunger, said flux shunt trip device having a trip coil which is adapted to be energized in said predetermined current condition to produce a magnetic flux which counterbalances said permanent magnetic flux and allows said plunger to bo moved by the force of said spring to said extended position to activate said trip mechanism and interrupt current through said breaker, and actuating member (31) operatively associated with said plunger and movable between an initial position and an actuated position, said actuating member being engageable by said plunger so that motion of said plunger to said extended position also causes said actuating member to move from said initial position to said actuated position there being means (37, 46, 47) for retaining said actuating member in said actuated position even if said plunger returns to said retracted position, and an auxiliary electrical switch mechanism (39) for generating an alarm signal to indicate tripping of said circuit breaker and which is activated by said actuating member when the latter moves to said actuated position.

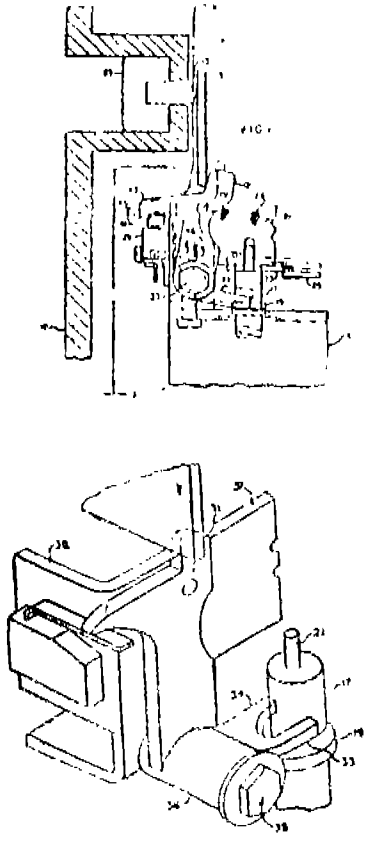


FIG 2

Comp. Specn 12 Pages Drawings 4 sheets

Ind. Class : 48 D_4 177430

Int. Cl.[4]: B 65 D, 63/00

CUTTING AND CLAMPING SLEEVE CONTACT.

Applicant : KRONE AKTIENGESELLSCHAFT, OF BEESKOWDAMM 3-11, D-1000, BERLIN 37, WEST GERMANY, A WEST GERMAN COMPANY.

Inventors: (1) DIETER CERKE (2) ANDRZEY JANCZAK.

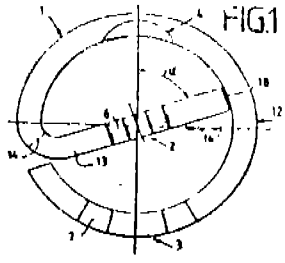
Application No. 534/Cal/92 ; filed on 27-7-1992.

9 Claims

A cutting and clamping sleeve contact for contacting a cable core transversely to the sleeve axis, in particular for cable cores of the telecommunication technology, made of a metal sleeve shell and comprising a clamping slut for the insulated cable core and comprising a cutting and clamping contact slot within the sleeve for the stripless termination of the cable core,

Wherein a portion (13, 13', 13") of the sleeve shall (15) is bent off radially into the interior of the sleeve body (12, 12', 12") and is provided with the cutting and clamping

contact slot (2), and that the clamping slot (3) opposite to the cutting and clamping contact slot (2) is cut into the sleeve shell (12).



Comp. Specn. 10 Pages Drawings 3 sheets

Ind. Class : 63b. 177437

Int. Cl.[4] : H 02 K 1/22

A STATOR FOR A TURBO GENERATOR.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, 8000 MUENCHEN 2, GERMANY, A GERMAN COMPANY.

Inventors: (1) RUDOLF VON MUSIL (2) WOLFGANG SCHIER. (3) GUENTER KREMSER. (4) NORBERT DIDZUN. (5) RAINER MUELLER. (6) FERDINAND STOBBE.

Application No. 594/Cal/1992; filed on 18-8-1992,

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta,

14 Claims

A stator for a turbo generator comprising a ferromagnetic and electrically conductive supporting body (1) and winding elements (2) which are inserted in associated grooves (3) of the supporting body (1), in which arrangement (a) each winding element (2) has an electrically highly conductive base body (4) which is surrounded by an impregnatable insulating sleeve (5) which is enveloped by an electrically poorly conductive, impregnatable protective layer (6) ;

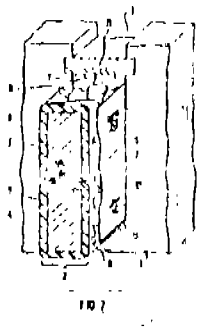
(b) an impregnatable separating layer (8) is arranged between each winding element (2) and at least one groove wall (7) of each associated groove (3) :

(c) the protective layer (6) and the groove wall (7) are electrically connected to one another through the separating layer (8) ;

characterised in that

(d) the separating layer (8) essentially comprises mica flake sheets (10) which lie flat between the winding bar (2) and the groove well (37) :

(e) the protective layer (6) is electrically connected to the groove wall (7) via a multiplicity of electrically poorly conductive links (9),



Comp. Specn. 17 Pages, Drawings, 3 sheets

Ind. Cl. : 129 Q 177438

Int. Cl.[4] , F 16 B 5/08

A CONNECTION AND METHOD FOR CONNECTION OF TWO PARTS ALONG ABUTTING EDGES.

Applicants : HANS OETIKER AG, MASCHINEN-UND APPARATEFABRIC OBERDORFSTRASSE 21. CH-8812 HORGEN, SWITZERLAND.

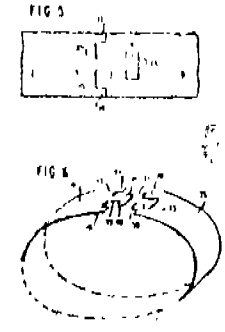
Inventor : HANS OETIKER.

Application No. 808/Cal/1992 filed on 4th November. 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A connection of two areal parts (1, 5, 31, 35) made of weldable materials including galvanized steel along two edges thereof (3, 7, 33, 37) which extend essentially parallel to one another at least along a common section, comprising at least one retaining mean (9, 29, 39) projecting from one edge (3, 33) of one part in the direction toward and over the edge of the other part and form lockingly engaging from behind, as viewed in the edge direction, in a recess (13, 23. 43) procided in the other part and one projection (19) at the edge (3, 33) of the one part, which is laterally offset with respect to the retaining means and form lockingly abuts at the other part in such a manner as to constrain bending movement in the edge direction within the other part that might cause the recess to open in the presence of tensional forces in the two parts, characterized by laser beam welded additional fastening means along at least one common section of at least one of the retaining means and of the projection.



Comp Specn. 14 pages; Drawing 2 sheets

Ind. Cl. : 44 177439

Int. Cl.[4] : G 04 C 10/02

ANALOG TIME-PLACE MOVEMENT MECHANISM FOR LARGE D1AMFTER ENERGY CELL.

Applicant : TIMEX CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, OF P.O. BOX 2126, WATERBURY. CONNECTICUT. 06720, UNITED STATES OF AMERICA.

Inventor: HERBERT SCHWARTZ.

Application No. 925/Cal/1992 ; filed on 28-12-1992.

Appropriate Office for Opposition Proceeding (Rule 4. Patents Rules 1972). Patent Office, Calcutta.

6 Claims

An analog timepiece movement mechanism adapted for powering by a large diameter thin energy cell, said mechanism comprising :

a molded frame of insulating material having a top central wall, having depending peripheral side wall portions together defining a movement-side cavity.

a substantially flat bridge member of insulating material extending between said peripheral side walla, so as to divide said movement-side cavity into an inner cavity and an outer cayity.

said frame and bridge together defining a plurality of pairs of coaxial bores, each bore of a pair defined in said frame and said bridge respectively to provide bearings,

a stepping motor having a rotor and a stator disposed in said inner cavity,

a dial-side gear train rotatably mounted on said lop central wall on the side thereof opposite said inner cavity,

a movement-side gear train disposed in said inner cavity and having a plurality of gear reduction wheel assemblies coupled to one another and to said stepping motor rotor, at least one of said wheel assemblies coupling said movement-side gear train to said dial-side gear train, and at least one off said wheel assemblies being of nonmagnetic material.

said peripheral wall portions and said bridge member together defining a circular envelope in said outer cavity adapted to fit and contain said energy cell.

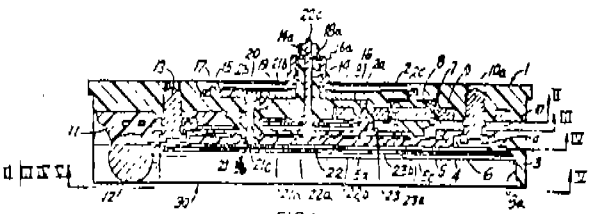


FIG.1

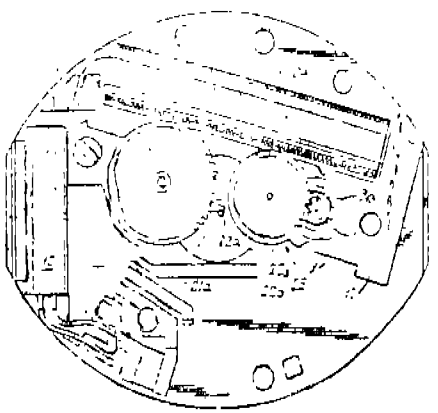


FIG.3

(Comp. Specn. 15 pages Drawing 5 sheets)

Ind. Cl. : 107 C 177440

Int Cl.[4] : F 16 J 10/02

COMBUSTION CHAMBER FOR INTERNAL COMBUSTION ENGINE.

Applicant : SANTOSH KUMAR BANERJEA, OF SO, RUE DUCOUEDIC, 75014 PARIS, FRANCE.

Inventor : SANTOSH KUMAR BANERJEA.

Application No. 144/Cal/93 filed on 11th March, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A combustion chamber for an internal combustion engine applying Diesel cycle for it's operation and capable to use vegetable oils, such as Sunflower oil Of Castor oil as fuel, wherein the combustion chamber comprises a fixed portion which is cast integrally with the cylinder head (11) and a removable portion (7) screwed under the said fixed portion (11) and retained by four welding points to prevent unscrewing of the said removable portion during the engine operation; wherein the cylinder head (11) and the piston head (14) are profiled to work in combination with the combustion chamber after it is assembled in the said cylinder head ; wherein the said combustion chamber is divided into five different zones ; wherein the first zone (1) is provided with a hemispherical form and is casted integrally with the cylinder head (11) and is furnished with two drilled holes; where one hole (12) is reserved for the fuel injection nozzle and the other for an electrically heated glow plug (13) which is actuated for the cold starting of the engine ; wherein the first zone (1) is cooled efficiently by the cooling water contained in the cooling space (10) provided in the cylinder head (11) ; wherein the second zone (2) is provided with a cylindrical form and comprises an annular copper ring (6), which is placed in the removable portion (7) of the combustion chamber; wherein the third and fourth zones (3 and 4) are also placed in the removable portion (7) just under the cylindrical portion (2) and both of them are provided with a truncated conical form and combined to form a convergent-divergent nozzle working in both directions for the gases flowing in and out from the combustion chamber ; wherein the conical surface of the fourth zone (4) is provided with four inclined slots (15) which arc spaced 90° angularly apart, in order to be placed dimetrically one in front of the other ; wherein the fourth zone (4) is followed by the fifth zone (51 communicating directly with the dead space left between the cylinder head and the piston top surface.

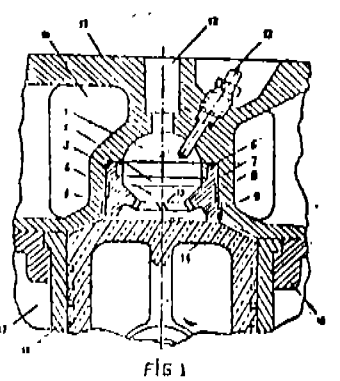


FIG 1

Comp. Specn 7 pages ; Drawings 1 Sheet

Ind. Cl. : 40 F 177441

Int. Cl.[4] : B 01 J 14/00

APPARATUS FOR REPEATED AUTOMATIC EXECUTION OF A THERMAL CYCLE FOR TREATMENT OF SAMPLES.

Applicant : SOCIETE DE CONSIELS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES, OF 51/53 RUE DU DOCTEUR BLANCHE, 75016 PARIS, FRANCE.

Inventor : M. DANIEL LARZUL, FRANCE.

Kind of application : Convention.

Application for Patent No. 753/Del/90 filed on 25-7-90.

Convention date: 8917963.4/5-8-89/GB.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972) Patent Office Branch. Karol Bagh, New Delhi-110 005.

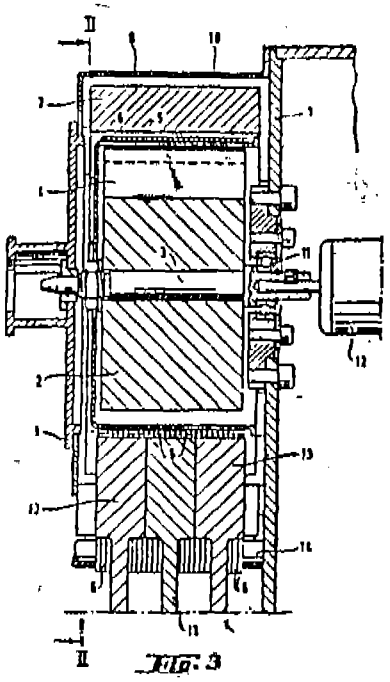
16 Claims

An apparatus for repeated automatic execution of a thermal cycle for the treatment of a sample, the apparatus comprising a pathway capillary tube (6) which is physically

closed throughout the treatment and within which the sam ple is resident throughout the treatment, means (3, 4, 11, 12) for moving the sample between different positions along the pathway located outside but near or inside" or partially inside and outside pathway depending on the means used for moving the sample of its position within the pathway positioned along said pathway.

Ref.—Nil

Agent : Remfry & Sagar



(Comp. Specn. 15 pages Drawing 3 Sheets)

Ind. Cl. : 50 D_1, E_2, 3 177442

Int. Cl.[1] : F 24 F 1/00, 3/00

HEAT EXCHANGE UNIT FOR USE IN AN AIR CONDITIONING SYSTEM.

Applicant : CARRIER CORPORATION AT CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK, 13221, USA.

Inventor : MARK ROLAND HOGAN, USA.

Kind of Application : Complete

Application for Patent No. 835/Del/90 filed on 20-8-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972) Patent Office Branch, Karol Bash, New Delhi-110 005.

5 Claims

A heat exchange unit for use in an air conditioning system characterised in that an enclosure defining a flow path for air to flow therethrough ;

said flow path having a first wall with a first opening (26) for egress of the air therethrough and a second wall down-stream of said first wall with a second opening for the discharge of the air therethrough ;

a heat exchanger (22) within said enclosure, including a frontal face having a length (1) between opposite first sides of said flow path, generally transverse to said flow path which the air passes therethrough ;

an axial fan (24) positioned in said flow path between said first wall and said beat exchanger; and

an orifice place (23) to be mounted in said flow path coaxial with said axial fan for guiding the air into said axial fan, said orifice plate positioned a predetermined distance (x) from said frontal face wherein a ratio of said length (1) to said distance (x) is in the range between 2.5 and 5.5

Ref. NIL

Agent : The ACME to.

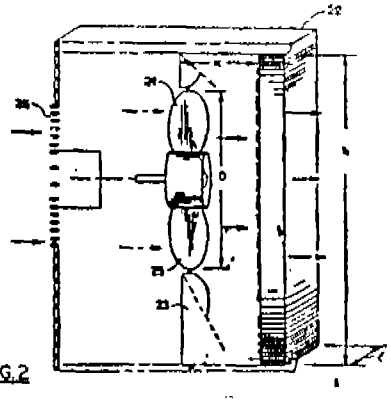


FIG.2

(Comp. Specn. 16 pages Drawing 5 Sheets)

Ind. Cl. : 68 E-l 177443

Int. Cl. [4] : G05G 15/00.

AN ELECTRONIC CONTROL DEVICE FOR THE UNINTERRUPTED SUPPLY Of ELECTRIC ENERGY,

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : PRASANTA KUMAR RAY, PRAHLAD KISHORE SETH, VIJAY KUMAR SEHGAL, RAVINDRA KUMAR SHARMA, RAM GOPAL, SHARD KUMAR SHRIVASTAVA, SATYA PRAKASH PATHAK, SANJAY KUMAR, MOHD SHAMSHED ALAM.

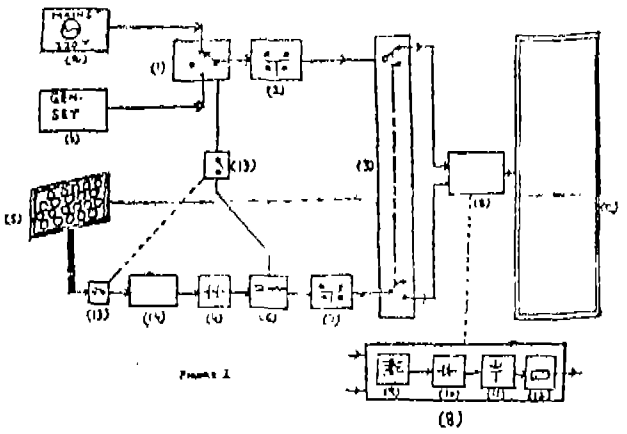
Application for Patent No. 888/Del/90 filed on 5-9-90.

Appropriate office for filing opposition proceedings (Rule 4, 19/2) Patent Office Branch, Karol Bagh, New Delhi-110005.

2 Claim

An electronic control device for the uninterrupted supply of electrical energy, which comprises a change over input selector switch (1) for a 220v AC supply, from the mains (a) or from a generator set (b), the output form the selector switch (1) being connected to this input or a miniature circuit breaker (2), the output from the miniature circuit breaker (2) being connected to a distribution board (c) through a second switch (3) and an electronic relay circuit (8), the distribution board (c) having terminals for connecting to various points for tapping the uninterrupted supply of electric energy, a storage battery (4) charged by solar energy through a solar panel (5) being connected to the input of the inverter (6) for converting DC voltage to 220V AC, the said elector switch (1) also connected to the inverter (6) through a battery charging switch (13) for charging the battery (4) by means of supply of 220V mains/generator electric energy in the absence of sunlight, the output of the inverter also being connected to the second selector switch (3), the output of the selector switch (3) being connected to the distributor board (c) referred to above through an electronic relay circuit (8), the electronic relay circuit consisting of a step down transformer (9) the output of which being connected to a rectifier bridge (10), the output of the rectifier bridge being connected to a filter unit (11) for the supply of DC current, the terminals of the contactor (12) being connected to the above said 220V AC mains (a) or (b) as well as the storage battery (4), the entire unit excepting the

storage battery (4) and the inverter (6) being housed in an electronic control panel, fig. II), the panel' having conventional indicators protection fuse, selector switches, volt and current meters for the selecting, indicating and controlling the uninterrupted supply of electric energy through the above-said conventional sources.



(Complete Specification 15 Pages Drawing Sheets 2).

Ind. Cl. : 128 C 177444

Int[4]. Cl. : A 61 K 6/02

APPARATUS FOR CARRYING OUT DEVITALIZATIONS AND ROOT CANAL TREATMENTS IN TEETH.

Applicant : FARO FABBRICA APPARECCHIATURE RAZIONALI ODONTOIATRICHE S.P.A. OF VIA. FARO, ORNAGO, MILAN, ITALY.

Inventor : OSVALDO FAVONIO, ITALY.

Kind of Application : Complete

Application for Patient No. 971/DEL/90 filed on 4-10-90.

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110005.

6 Claims

Apparatus for carrying out devitalizations and root canal treatments in teeth by feeding liquid chemical treatment substitutes into the pulp chamber and root canals of the tooth, which apparatus comprises scaling means (21) for lightly sealing said pulp chamber (19), a tightly sealed vessel (10), vacuum means (P,R_x,V,R_z,Z) connected to said vessel (10) for putting said vessel (10) under controlled vacuum, first selective connection means (23) connecting said vessel (10) and said pulp chamber (19), a plurality of atmospheric pressure containers (11, 12, 13) suitable for containing respective liquids for the treatment of the pulp chamber (19) and of the root canals, second selective connection means (22) connecting said plurality of containers (11,12,19) and said pulp chamber, (19) and third selective connection means (14,15, 16,32,33,34) connecting said pulp chamber (19) and atmosphere, so that the pulp chamber (19) and the root canals can be firstly put under vacuum and then treated in succession with said treatment liquids at atmosphere pressure whereby said liquids are drawn into said vessel (10) under controlled vacuum, flowing through said pulp chamber (19) and the relevent root canals.

US Patent Nos. 3704520 and 4021921 are refered in the specification

Agent : REMFRY & SAGAR

(Complete Specification 17 Pages Drawing Sheet 1)

Ind. Cl. : 32 F 3a . 177445

Int.[4] Cl. : C 07 C 47/20

A PROCESS FOR THE PREPARATION OF ALDFHYDES.

Applicant . SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. OF CAREL VAN BYLANDT-LAAN, 30, 2596 HR. THE HAGUE, THE NETHERLANDS.

Inventor : ANKE GEZINA BAKKER, NETHERLAND; ANAND KUMAR BACHASINGH. NETHERLAND.

Kind of Application Convention.

Convention date 8-10-89/8923433.0/NL.

Application for Patent No. 982/DEL/90 filed on 9-10-90

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110005.

7 Claims

A process for the preparation of aldehydes of the general formula :

$$R^1\text{--}CH_2\text{--}CH(R^2)\text{- -}(CH_2)_n\text{—}CH\text{--}C(CH_3)_2$$

wherein one of R^1 and R^2 represents a formyl group and the other represents a hydrogen atom, and n is an integer of from 2 to 8, which comprises reacting a compound of the general formula :

$$CH_2=CH\text{-}(CH_2)_n\text{-}CH\text{-}C(CH_3)_2$$

with carbon monoxide and hydrogen in the presence of a hydroformylation calalyst which is a homogeneous catalyst system comprising a soluble rhodium compound and a phosphor (III) compound of the kind such as hereinbefore described, at a temperature between 40°C to 110°C and at a pressure in the range between 1 to 20 bars.

Ref. NIL

Agent : Remfry & Sagar

(Complete Specification 10 pages Drawing Sheets NIL)

Ind. Cl. : 164 A II 123 1(4) 177446

Int.[4] Cl. : C 05 F 9/02

A BIOREACTOR FOR BIOLOGICAL CONVERSION OF WASTE INTO COMPOST.

Applicant : DEWANKRAFT SYSTEMS PVT. LTD,. OF N-127, GREATER KAILASH, NEW DELHI.

Inventor : DEEPAK DEWAN, INDIA.

Kind of Application : Provisional—Complete

Complete specification left after provisional specification, on 25-5-92.

Post dated up to 24-2-91.

Application for Patent No. 1307/DEL/90 filed on 24-12-90.

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110005.

7 Claims

A bioreactor for biological conversion of waste into compost comprising a tunnel reactor (1) characterised in that a hopper (2) provided in the cover (3) of said reactor (1), a hydraulic door (4) being provided at one end of said reactor (1) for pushing the waste into reactor (1), a discharge door (5) provided at the other end of the reactor (1) for discharging compost from the reactor (1) air inlets (6) and

outlets (7) being provided with said reactor (1) for introducing air from the base of said reactor (1) and removal of air from said reactor (1) respectively.

Ref. NIL

Agent : L . S. DAVAR & Co.

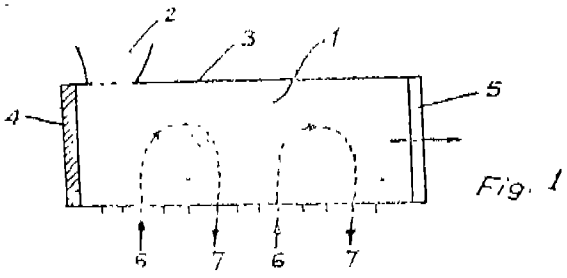


Fig. 1

(Provisional Specification 5 pages Drawing Sheets NIL)
(Complete specification 9 pages Drawing Sheets 2)

Ind. Cl. : 116 G 177447

Int. Cl.[4] : B 65 G 15/00

KAIL BELT CONVEYOR

Applicant : MUNISHWAR KUMAR, C/O H. No. 6206, BLOCK-1 DEVNAGAR, DELHI-110 005.

Inventor : MUNISHWAR KUMAR, INDIA.

Kind of Application : Complete

Application for Patent No. 1308/DEL/90 filed on 24-12-90.

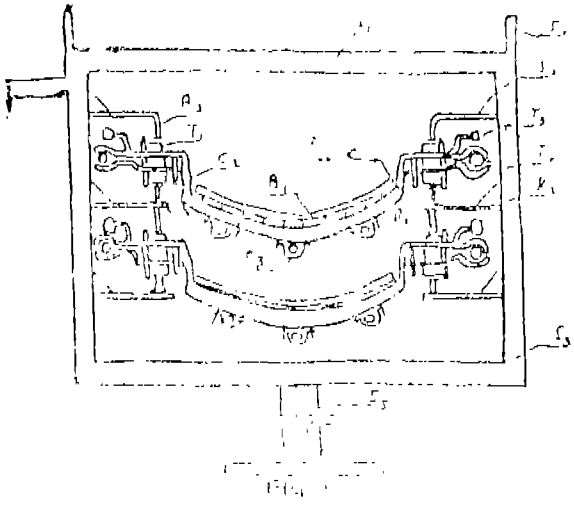
Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch Karol Bagh, New Delhi-110 005.

5 Claims

A rail belt conveyer comprising an endless lubber belt (B_1) series of craddles (c) on which the rubber belt is supported at regular intervals, wheeled trolleys (T_1 to T_8) attached to the craddles, endless track rail tor rails (R_1 R_2 R_3) on which the wheeled trolleys move, an endless steel wire rope or ropes (H_1) nipped in between two members of the craddles transmitting motive power to the rubber belt through the craddles and enusing movement of the wheeled trolleys ever the rails.

Ref. NIL

Agent : Applicant himself



(Complete Specification 37 pages. Drawing Sheets 4)

Ind. Cl. : .129. Q 177446

Int.[4] CL . B 29 C 65/44.

A CONNECTION COMPONENT OF HEAT-FUSING PLASTIC.

Applicant : GAZ DE FRANCE OF 23, RUE PHILIBERT DELORME, 75017 PARIS, FRANCE.

Inventor : DENIS DUFOUR. FRANCE, FRANCOIS FORTIN; FRANCE.

Kind of application : Complete

Application for Patent No. 1149/DEL/90 filed on 21-11-90

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch Karol Bagh, New Delhi-110 005.

12 Claims

A connection component of heat-fusing plastic, comprising :

said heat-fusing plastic having a front surface for connecting aid component to a corresponding front surface of an element;

said component having a resistive foil of electrically conductive material embedded proximately to said front surface thereof for fusing said heat-fusing plastic surroundings it at said front surface and thereby for causing welding between said component and said element; and

said resistive foil having a thickness such that it breaks due to expansion of said heat-fusing plastic at a temperature between a fusion temperature of the plastic of said component and of said element and a maximum temperature of thermal damage of said component and said element.

Ref. : NIL

Agent : Remfry & Sagar.

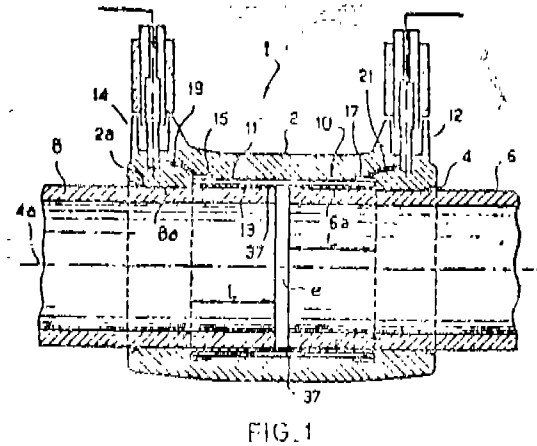


FIG. 1

(Complete Specification 16 pages Drawing Sheets 2)

Ind. Cl. :51 177449

Int.[4] Cl. : D 06 H 7/00

AN IMPROVED RING CUTTER FOR CUTTING THE STITCHING THREAD ON BAGS

Applicants : RAJ KUMAR TANDON, 28. CANTONMENT, KANPUR.

Inventor : RAJ KUMAR TANDON INDIA.

Kind of Application : Complete

application for Patent No. 1114/DEL/90 filed on 9-11-90

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 2

An improved ring cutter (1) for cutting the stitching threads on bags comrises :

— ring portion (1) to fit the index linger,

— the said ring (1) portion having an Integral hook (2) portion which is co-axial with the axis of the index finger, wherein

— the hook (2) portion having a blade (3) fitted in a way that it is co-planer with the plane passing through the central axis of the ring (1) and the said hook (2) portion,

— the cutting (4) edge of the blade (3) being inclined so as to leave an acute angle gap between the said edge and the top surface of the ring portion.

— the said gap permitting stitch thread bags of textile or other material into it so that the movement of the hand quickly cut the said thread.

Ref. NIL

Agent : THE ACME CO.

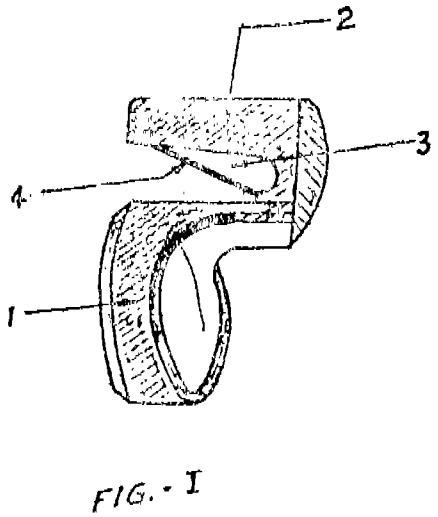


FIG. - I

(Complete Specification 6 pages; Drawing Sheet 1)

4—417 GI/96

177450

Int Cl. : 32 P3(8)

Int. Cl.[4] : C 07 C 45/00, 47/00

Title : AN IMPROVED PROCESS FOR THE PREPARATION OF (E)-11-HEXADECENAL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi.

Inventor : SHAILE SINGH KADAN, India; TAMMISHETTI SHEKHARAM, India; MADDENA NARAYAN REDDY, India; ATHOTA GHOSH PRASAD, India.

Kind of Application : Complete

Application for Patent No. 132/DEL/91 filed on 20.2.91.

Appropriate office for filing opposition proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi - 110 005.

(Claims 6)

An improved process for the preparation of (E)-11- hexadecenal of the formula (1) ... of the drawing accompanying the specification

which comprises (a) hydroboration of methyl undecenoate of the formula (3)

by conventional methods to give methyl 11-hydroxyundecanoate of the formula (4)

(b) oxidising methyl 11-hydroxyundecanoate of the formula (4) by conventional methods to get methyl 11- oxoundecanoate of the formula (5),

(c) reacting the aldehyde of methyl 11- oxoundecanoate of the formula (5) with n-pentyltriphenylphosphonium bromide of the formula (7) and sodamide to get methyl-(z)-11-hexadecenoate of the formula (6),

and (d) reducing the said methyl-(z)-11-hexadecenoate with [(Diisobutyl Aluminium Hydride) DIBAL-H to get z-11-hexadecenal of the formula (1).

Ref. Nil

Agent :

(Complete specification 8 pages Drawing Sheets 1)

Ind. Cl. : 190 C, 40 F 177451

Int. Cl.[4] : A 61 L 1/00.

ASSEMBLY FORMING A CYLINDRICAL CAGE OF SPACED APART VANES FOR USE IN PARTICULAR IN AN AIR CLASSIFIER.

Applicant : FULLER CO., 2040 AVENUE C, P.O. BOX 2040, LEHIGH VALLEY, PENNSYLVANIA 18001-2040, U.S.A.

Inventor : BERNARD HARVEY SCHONBACH, ROGER ANDRUWPOWELL,STEPHEANDREWLUKACZ.

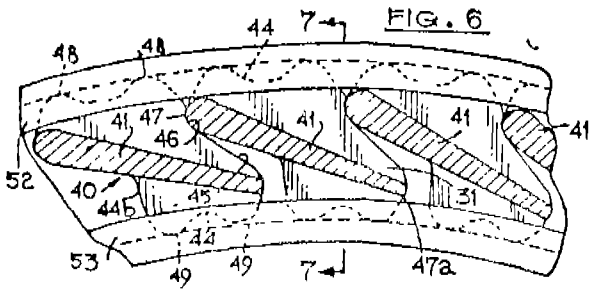
Application for Patent No. 120/Del/90 filed on 12-2-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 12

An assembly forming a cylindrical cage (5) of spaced apart vanes (40) for use in particular in an air classifier (38) comprising a plurality of enlogated blades (41); a pair of longitudinally spaced apart ring elements (52, 53); a plurality of end lug (42) , each of said end lugs (42) being associated with an end of one of the blade (41) and with one of the ring elements (52,53); each blade (41) and an associated end lug (42) at each end thereof forming a vane (40); each of said end lug (42) being positioned in said ring element and (52,53) and dimensioned and shaped to nest together with

adjacent end lugs (42) to position the vanes (40) in said ring elements in (52, 53) circumferentially spaced apart and predetermined angular relationship to each o:her to form the cylindrical cage.



(Complete Specification 18 pages: Drawing Sheets 5)

Ind. Cl. : 129 Q 177452

Int. Cl.[4] : B 23K 11/04.

"METHOD OF PRODUCING A JOINED ARTICLE BY A COLD PRESSURE WELD JOINING FIRST AND SECOND WORK PIECES AND COLD PRESSURE WELDING MACHINE".

Applicant : BWE LTD. OF BEAVER ROAD INDUSTRIAL ESTATE, ASHFORD, KENT TN23 ISH, ENGLAND.

Inventor : DANIEL JOHN HAWKES, LESLIE JOHN WEBB, DOUGLAS EDWARD ANDRSON.

Application for Patent No. 186/Del/90 filed on 28-2-90. Convention Date 8904859.9/3-3-89/GB.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 13

A method of producing a joined article by a cold pressure weld joining first and second workpieces comprising positioning first and second workpieces with faces in axially abutting relationship and alternately applying and relaxing a welding pressure across the abutting faces to form an upset weld zone, characterised in that material displaced as flash material at the upset weld zone is cleared from the weld zone intermediate successive applications of welding pressure such that the cross-sectional area of the workpieces is maintained substantially constant between successive applications of welding pressure.

A cold pressure welding machine for carrying out a method of producing a join article by a cold pressure weld joining first and second workpieces as claimed in any preceding claim, the machine having two pairs of die halves (60. 62) each formed with a groove (92) together providing in a closed position of the respective pairs of die halves jaws (56, 58) for gripping end portions of first and second workpieces (102, 106) movable between a closed position in which the associated workpiece (102, 104) is gripped and on open position in which the associated workpiece (102, 104) is released and also being reciprocable in a direction parallel to the longitudinal axis of the workpieces (102, 104) to apply or relax a welding pressure across abutting faces of the end portions of the workpieces (102, 104), characterised in that the machine is provided with a main frame (2) having a pair of side plates (8. 10) rigidly mounted on a base frame (2) and braced apart by a plurality of guide rods (14, 16, 18), with the pairs of die halves (60, 62) positioned individually in a pair of damn (4, 6) bodies reciprocably mounted on the guide rods. (14,16, 18) each clamp body (4,6) carrying a hydraulically actuatable piston and cylinder assembly (28) connected for reciprocal movement in a direction perpendicular to the guide rods (14, 16, 18) of one respective die half positioned in the associated clump body(4,6) into and out of engagement with the other respective die half (60,62) secured to the associated clamp body (4,6), a plurality of tie rods (26) extending through bores in the clamp bodies (4, 6) in a direction parallel to the guide rods (14,16,18) and each connected to a piston and cylinder assembly (28) hydraulically actuatable to move the clump bodies (4, 6) the one (4) toward the other (6) and means (46,48,52,54) urging the clamp bodies (4,6) apart.

(Complete Specification 18 pages; Drawing sheets 6)

Ind. Cl. : 32BC 177455

Int. Cl.[4] : C 10 G 1/00.

A METHOD FOR THE PREPARATION OF DECOKED INSTALLATION FOR CRACKING HYDROCARBON.

Applicant : PROCEDES PETROLIERS ET PETROCHIMIQUES. OF 22, ALLEE CLAUDE MONET, 78160 MARLY LE ROI, FRANCE, AND ERIC LENGLET OF 22, ALLEE CLAUDE MONET, 78160 MARLY LE ROI, FRANCE.

Inventor : ERIC ELENGLET, FRANCE.

Kind of Application : Complete

Application for Patent No. 377/Del/90 filed on 17-4-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 12

A method for the preparation of a decoked installation for steam-cracking hydrocarbons which includes a steam cracking furnace and a indirect quench boiler, said method comprising eroding away at least a portion of the coke deposited on the inside walls of the installation by introducing solid particles such as hereinbefore described having a mean diameter of less than about 150 um into said installation, by conveying said particles with a vector gas at high speed of 70 m/s to 480 m/s in the furnace through said installation while the installation is in hydrocarbon cracking operation, said vector gas comprising, at least in part, the hydrocarbon feed stock mixed with steam, and ratio of said solid particles to said vector gas being less than 10% by weight such that the resulting mixture of solid particles and vector gas behaves as a gas and performs light erosion of said coke deposited on the inside walls of the installation, thereby decoking said hydrocarbon steam-cracking installation during normal operation of said installation,

Ref. : NIL

Agent : Remfry & Sagar.

(Complete Specification 35 pages; Drawing Sheets 8)

Ind. Cl. : 32 B, 32 F4 177454

Int. Cl.[4] : C07C 149/12.

"A PROCESS FOR THE PREPARATION OF SUBSTANTIALLY MERCAPTAN-FREE HYDROCARBONS".

Applicant : A UOP CO., OF 25, EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, USA.

Inventor : JEFFREY CHRISTOPHER BRICKER LAURENCE, OLIVER STINE, THOMAS ACE VERACHTERT, ROBERT ROY FRAME.

Application for Patent No. 194/Del/90 filed on 2-3-90.

Appropriate Office for filing Opposition Proceedings (Rule 4. 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 4

A process for the preparation of substantially mercaptan-free hydrocarbons from a sour hydrocarbon faction containing mereaptans said process comprising contacting the hydrocarbon fraction with a catalytic composite comprising a

metal chelate dispersed on an adsorbent support such as herein described, which is effective in oxidizing said mercaptans to disulfides in the presence of an oxidizing agent such as herein described and from 0.1 to 200 wppm based on hydrocarbons an aqueous solution of ammonium hydroxide and from 0.05 to 500 wppm based on hydrocarbons a quaternary ammonium compound having the structural formula.

where R is a hydrocarbon group containing up to about 20 carbon atoms and selected from the group consisting of alkyl, cyclolkyl, aryl, alkaryl, and aralkyl, R_1 is a straight chain alkyl group containing 5 to 20 atoms, R_2 is a hydrocarbon group selected from the group consisting of aryl, alkaryl and aralkyl, X is an anion selected from the group consisting of hydroxide, halide, nitrate, nitrite sulfate, phosphate, acetate, citrate tartrate.

(Complete Specification 17 pages; Drawing Sheets Nil)

Ind. Cl. : 164 C 177455

Int. Cl. : C 02 F 1/66

A CLARIFIER FOR TREATMENT OF INFLUENT,

Applicant : DEWAN KRAFT SYSTEMS PVT. LTD, OF N- 127 GREATER KAISLASH-I, NEW DELHI-110 048.

Inventor : DEEPAK DEWAN, INDIA.

Kind of. Application : Competle.

Application for Patent No. 0387/Del/90 filed on 19-4-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 7

A clarifier (10) for treatment of influent comprising a biorcactor (11) provide with an inletat the top end thereof for introduction of the influent therein, an outlet (16) extended into an intermediate compartment (17) being provided in flow communication, with a vertical flow tank (18), a lamella clarifier (30) provided with said vertical flow tank (18) in flow communication thereof for trapping flock entrapped in the influent, and a sludge outlet (20) provided in said vertical flow tank (18) near the bottom end for the flow of sludge.

Ref : NIL.

Agent : L. S. DAVAR.

(Complete Specification 9 Pages; Drawing Sheets NIL).

Ind. Cl. : 40 $_2$, F_4 177456

Int. Cl.[4] : B01 3/00.

DISTILLATION COLUMN REACTOR.

Applicant : CHEMICAL RESEARCH & LICENSING COMPANY. OF 10100 BAY AREA BOULEVARD. PASADENA TEXAS 77507, UNITED STATES OF AMERICA. Inventor : EDWARD MAURICE JONES.

Application for Patent No, 458/DeI/90 filed on 14-05-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 10

A distillation column reactor for concurrently carrying out chemical reactions and separating by fractional distillation the reactants and reaction products, comprising :

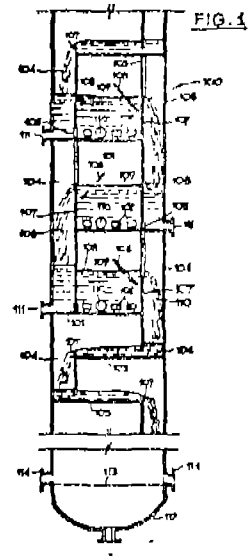
(a) a distillation column (100) having a plurality of liquid-vapor contact trays (101, 103);

(b) support means (101, 108, 105) for loosely supporting catalyst (109) on at least a portion of said trays (101, 103) to approximately the depth of liquid (108) of said trays (101, 103);

(c) withdrawal means (104) connected to said trays (101, 103) for withdrawing from said trays (10) , 103) said Liquid (108) and catalyst <1O9) carried by said liquid (108);

(d) separating means (107, 106, 200, 111) connected to said withdrawal means (104) for separating) said catalyst (109) from said liquid (108), said separating means (107, 106) being connected to said trays (101, 103) for returning said liquid (108) less said catalyst (109) to said trays (101, 103); and

(c) replacing means (110, 104) connected to said trays (101, 103) for replacing said catalyst (109) with a second catalyst and for mixing said second catalyst with said liquid (108) and for returning said liquid (108) with said second catalyst to said trays (101, 103).



(Complete Specification 11 Pages Drawing Sheets 2).

Ind, Cl. : 40 E 177457

Ind. Cl.[4] : B01D 15/08.

A PROCESS FOR SEPARATING ISOMERS OF DIETHYLTOLUENE (DET) SUCH AS 3, 5 AND 2, 6 DIETHYLTOLUENE USING CATION EXCHANGED ZEOLITE ADSORBENT.

Applicant : UOP, AT 25 EAST ALGOQUIN ROAD, DES PLAINES, ILLINOIS, USA,

Inventor : HERMANN A. ZINNEN, USA.

Kind of Application : Complete.

Application for Patent No. 674/DEL/90 filed on 5-7-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 10

A process for separating isomers of diethyltoluene (DET) such as 3, 5-and 2, 6 diethyitoluene from a feed mixture thereof with at least one other DET isomer comprising contacting said feed mixture at adsorption conditions such as a temperature in the range of 20 to 250°C and a pressure such as herein, described sufficient to maintain liquid phase with a cation exchanged zeolite absorbent selected from X zeolite exchanged with a potassium cation; X zeolite exchanged with sodium or copper or Y zeolite exchanged with copper, sodium, barium or calcium; and X zeolite exchanged with barium or lithium or with potassium and barium or Y zeolite exchanged with potassium, sodium, barium or calcium. or thereby selectively adsorbing one of the DET isomers contained in the feed; removing atleast one relatively non-absorbed DET isomer from contact with said adsorbent to form a raffinate stream recovering said adsorbed DET isomer by subjecting the resulting rich adsorbent to desorption, at desolution condition such as a temperature in the range of 20 to 250°C and a pressure sufficient to maintain liquid phase with a desorbent material comprising a manocyclic alkyl-substituted aromatic hydrocarbon to form an extract stream containing the desire isolated isomers obtained from adsorbent.

US Patent No. 2, 985, 589; 3040773, 3422848, 4313015 arc referred in the specification.

Agent : LALL LAHIRI & SALHOTRA.

(Complete Specification 32 Pages; Drawing Sheets 7)

Ind. Cl. : 107 G 177458

Int.[4] Cl. : F 02 G 1/04

AN IMPROVED PISTON AND SEAL SYSTEM FOR STIRLING ENGINES.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI.

Inventor: DR. SODANKUR THIMMANNABHAT RAJAN, INDIA.

Kind of Application : Provisional—complete.

Application for Patent No. 689/Del/90 filed on 10-7-90.

Complete specification left after Provisional Specification on 1-10-91.

Appropriate Office for Opposition Proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110005.

2 Claims

An improved piston and seal system for stirling engines, which comprises a stainless steel tube piston (2) having a dome shaped part welded to it at one end to form a piston crown (3), the piston crown having a counter-sunk hole (7) at its center, to the other end of the piston (2) being fitted a flat circular bottom cover (4) having an integral built-in bolt (5) at its centre and extending into the counter-sunk hole (7) of the piston crown (3), the piston (2) and the bottom cover (4) being held tightly by a clamping nut (6) fixed onto the bolt (5) in the counter-sunk hole (7), the piston being provided with holder rings (10) fitted onto its outer surface, the holder rings (10) having fixed to it guide rings (8) at the piston (2) extremities and a plurality of hollow U-shaped sealing rings in between the guide rings (8), the piston (2) and the holder rings (10) having holes (11) drilled in them to connect the space of the hollow U-shaped sealing rings (9) and the hollow space within the piston (2), the integral bolt (5) having a passage inside it with means for charging the hollow space of the piston (2) with high pressure inert gas or air, a sealing gasket (15) being provided in between the bottom cover (4) and the holder ring (10) the bottom cover (4) having means (12, 14) for fixing a connecting rod (13), the entire assembly being placed inside an engine cylinder (1) matching the contour of the piston (2).

Ref. NIL

Agent: CSIR

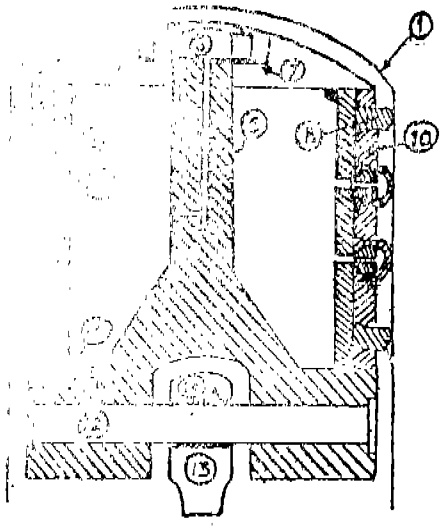


FIG. 4

(Provisional Specn. 5 pages Drgns. 2 Sheets)

(Comp. Specn. 10 pages Drgns. Sheet Nil)

Ind. Cl. : 128 AG 177459

Cl. lnt.[4] : A 45 F 5/04, A 61 F 13/16.

AN ABSORBENT GARMENT HAVING DETACHABLE COMPONENTS.

Applicant : THE PROCTER & GAMBLE CO., CINCINNATI, STATE OF OHIO, USA.

Inventor : WILLIAM PATRICK GIPSON, USA, MICHAEL WAYNE MASON, USA, THOMAS ANTHONY HENSLER, USA.

Kind of application : Complete

Application for Patent No. 699/Del/90 filed on 11-7-90.

Appropriate Office for Opposition Proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110 005.

2 Claims

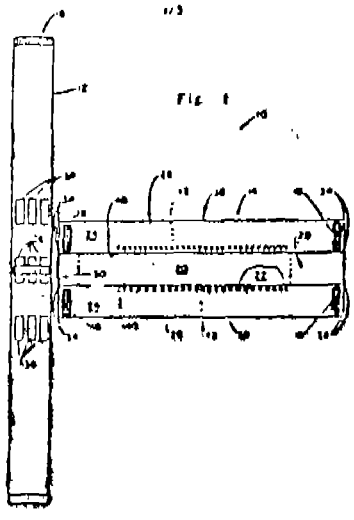
An absorbent garment having detachable components with a front portion and a longitudinal centerline said garment comprising a belt consisting of a first face and a second face opposed thereto.

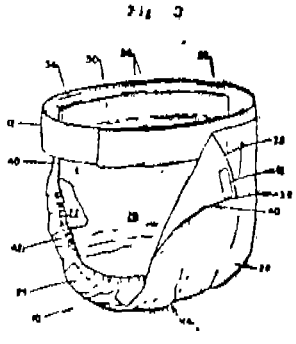
and a disposable assembly comprising a liquid pervious topsheet, a liquid impervious backsheet joined to said topsheet and an absorbent core intermediate said topsheet and said back sheet characterised in that said belt comprises receiving material and at least one patch of complementary hook type material refastenably attached to said receiving material and said disposable assembly comprises two outwardly facing patches of complementary hook type material on said back sheet, one said patch being in the front of said garment and one said patch being in the roar portion of said garment, said patches being refastenably attached , to said

receiving material ofsaid belt, said belt and said disposable assembly being detachable from each other.

US. Patent No. 4315508, 36186.8, 4051854 and French Patent No. 2612770 arc referred in the Specification.

Agent : Lall Lahiri & Salhotra.





Comp. Specn. 21 pages Drgns. 3 Sheets

Ind. Cl. : 32 F, 32 D, 40 B, 40 C 177460

Int. Cl.[4] : C 08 F 4/00, C 08 G 2/04.

A CHAIN TRANSFER COMPOSITION FOR USE INTER ALIA IN POLYMERIZING VINYL CHLORIDE MONOMER AND THE PROCESS OF PREPARING THE SAME.

Applicant : THE GEON CO. OF 6100 OAK TREE BOULEVARD, CLEVELAND, OHIO 44131, U.S.A.

Inventor : ZAEV SHARABY. U.S.A.

Kin of Application: Divisional.

Application for Patent No. 723/Del/90 filed on 17-7-90.

Divisional to Patent Application No. 748/DEL/87 Antedated to 25-8-87)

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110005.

(Claims 4)

A chain transfer composition for use inter alia in polymerizing vinyl chloride monomer comprising :

at, least one mercaptan chain transfer agent in an amount of from 0.03 to 5.00 parts by wt. per 100 partis of vinyl chloride monomer selected from the group consisting of 2-mercaptoethanol, 3-meriaptoethanol, thiopropylenegycol thioglycerine, thioglycolic acid, thiohydracrylic acid, thiolactic acid, thiomalic acid, isooctyl thioglycolate, n-buty 3-mercaptopropionate, n-butyl thiglycolate, glycol dimercaptoacetate, trimethylopropane trithioglycolate and alkyl mercaptans, and at least an amount equal to the amount of the mercaptan chain transfer agent as at least one non-polymerizable material which is characterised by being (i) miscible with said mercaptan, (ii) substantially insoluble in water, and (iii) is non-polymerizable with said vinyl chloride said material being selected from the group consisting of polycaprolactone, polysilicone, polyester, esters of polyols, esters of polyacids, phenyl ethers, ethoxylated alkylphenois, sorbitan monostearate, sorbitan monooleate and sorbitol esters of fatty acids.

US Patent No. 4,189, 552 is refered in the specification.

Agent : Remfry & Sagar.

(Coplete Specification 20 pages; Drawing Sheets : NIL).

Ind. Cl. : 32 E.

Int. Cl.[4] : C08G 63/04.

A MICROBIOLOGICAL PROCESS FOR THE PRODUCTION OF COPOLYMER.

Applicant : ZENECA LIMITED, OF IMPERIAL CHEMICAL HOUSE, 9 MILLBANK. LONDON SWIP-311F-ENGLAND.

Inventor : DAVID BYROM.

Application for Patent No. 1235/Del/90 filed on 06-12-90.

Convention date : 8927794.1/08.12.89/GB.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patents Office Branch, Karol Bagh, New Delhi-110005.

(Claims 10)

A microbiological process for the production of copolymer comprising HB and HV monomer unit so as to improve the conversion efficiency of an HV component into HB/HV copolymer, said process comprising ;

(i) cultivating a PHB accumulating bacterium from which it major metabolic pathway for the conversion of HV component to HV monomer units has been substantially eliminated and which is not capable of significant growth when cultivated under otherwise non growth limiting conditions on a substrate consisting essentially of an HV component such as hereinbefore described said PHB accumulating bacterium being cultivated in an aqueous medium in which a substrate comprises a water soluble assimilable carbon containing HV component such as hereinbefore described and a water soluble assimilable carbon containing HB component such as hereinbefore described at a desired weight of dry cells per litre of medium, under growth limitation conditions conductive to said PHB accumulating bacterium synthesizing and accumulating said copolymer, and

(ii) harvesting said copolymer containing bacterium.

(Complete Specification 19 pages: Drawing Sheets : NIL).

Ind. Cl. : 85 J 177462

Int. Cl.[4] : F27B 1/16.

"APPARATUS FOR INSTALLING OR REMOVING SHAFT FURNACE TUYERFS OR TYMPS."

Applicant : PAUL WURTH S.A . .32 RUE D'ALSACE, L-1122, LUXEMBOURG.

Inventor : MAILLIET PIERRE.

Application for Patent No. 1247/DEL/90 filed on 11-12-1990.

, Appropriate Office for filing Opposition Proceedings (Rule 4, 1972) Patent Office Branch, Karol Bagh, New Delhi-110 005.

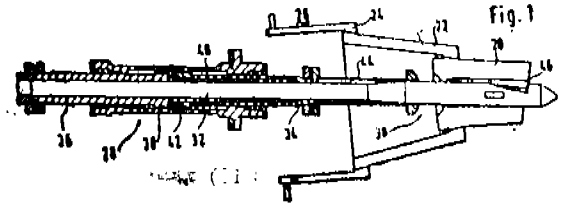
16 Claims

An apparatus for installing or removing shaft furnace tuyeres or lymps comprising :

an actuator (28) on a movable (48) support so as to be alignable with the axis of the tuyere or the lymps, and

a gripping (30, 36) and including a first (46, 86) element and a second element (44, 66) supported on said support (48) so as to be movable in relating to each: other along the axis of the tuyere or of the lymp (22),

wherein said acuator (28) comprises a hydraulic cylinder provided with a first and a second (38, 42) piston which are movable in relation to each other, said first piston (32) being connected to said first mobile (46, 86) element of the gripping (30, 60) unit, so as to be capable of exerting a force on said first mobile (44, (86) element in the direction of removable of the (20) tuyere or of the tymp (22), and said second (42) piston being connected to said second mobile (44, 66) element of the gripping (30, 60) unit as so to be capable of exerting a force on said second mobile (44, 66) element in the direction of insertion of the tuyere (20) or of the tymp (22).



(Comp. Spcen. 16 pages ; Drgns, 14 Sheets)

Ind. Cl. : 39 G 177463

Int. Cl.[4] : B 01 J 271/38.

A PROCESS FOR PREPARING A, SOLID CATALYST SUITABLE FOR A HETEROGENEOUS PROCESS FOR POLYMERIZING ONE OR MORE OLEFINS.

Applicant : BP CHEMICALS LTD.. OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SWIW OSU, ENGLAND.

Inventors : JEAN-CLAUD ANDRE BA1LLY, FRANCE : PHILIPPE BRESS FRANCE : CHRISTINE CHABRAND, FRANCE; ERICK DAIRE, FRANCE.

Kind of Application : Complete.

Application for Patent No. 1250/Del/90 filed on 12-12-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110005.

(Claims 3)

A process for preparing a solid catalyst suitable for a heterogeneous process for polymerizing one or more olefins by contacting a ziroconium metallocene with a magnesium chloride support said process characterised in that :

(i) contacting a solid support (A) containing from 80 to 99.5 mol% of magnesium dichlorede and from 0.5 to 20 mol% of at least one organic electron-donor compound, D, free from labile hydrogen, the said solid support being in the form of spheroidal particles having a mass-average diameter, Dm, of 10 to 100 microns and a particles size distribution such that the ratio of Dm to the number-average diameter, Dn, of the particles is not higher than 3, with

(ii) a zirconium metallocene (B), and optionally an organoaluminium compound (C), preferably an alumenoxane wherein the atomic ratio of Zr/Mg is from 0,001 to 0.1 and the atomic ratio of Ai/Zr is from 0 to 500.

US Patent No. 4659685 is refered in the specification.

Agent : REMFRY & SAGAR.

(Complete Specification 27 pages; Drawing Sheets: NIL).

Ind. Cl. : 70 C 177464

Int. Cl.[4] : C 23 C 22/27.

AN IMPROVED PROCESS FOR THE PREPARATION OF PASSIVATED GALVANIZED STEEL SUBSTRATE IN LOW CHROMATE BATH.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI.

Inventors : ARUN KUMAR DEY, INDIA;
DEVENDRA DEO NARAYAN SINGH, INDIA.

Kind of Application : Complete.

Application for Patent No. 1284/Del/90 filed on 18-12-90.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branih, Karol Bagh, New Delhi-110005.

(Claims 6)

An improved process for the preparation of passivated galvanised steel substrate in low chromate bath which comprises :

(1) Preparing an aqueous solution of a chromium compound, wherein the amount of chromium ranges from 0.01 to 0.50% by weight;

(2) Adding sulphuric acid in the range of 0.002 to 0.20% by volume to the prepared aqueous solution of the chromium compound under stirring;

(3) Adding nitric acid in the range of 0.01 to 0.50% by volume to the solution resulting from step (2) under strirring;

(4) Adding aqueous solution of water soluble polymer such as herein described in the range of 0.10 to 0.50% by weight to the solution resulting from step (3) under stirring;

(5) Immersing the galvanized steel substrate in the solution resulting from step (4) for a period ranging from 30 to 90 seconds at room temperature to get passivated galvanised steel substrate;

(b) Drying the said passivated galvanized substrate in air for a period ranging from 24 to 48 hours.

Ref. NIL.

Agent : CSIR.

(Complete Specification 11 pages; Drawing Sheets : NIL).

Ind. Cl. : $32F_2$ b 177465

Int. Cl.[4] : C07D 501/10.

PROCESS FOR THE PREPARATION OF 3-EXOMETHYLENE CEPHALOSPORINS.

Applicant : RANBAXY LABORATORIES LIMITED, OF 19, NEHRU PLACE, NEW DELHI-110 019.

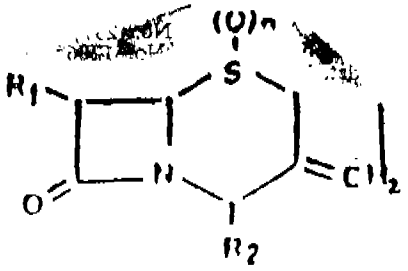
Inventors : JAG MOHAN KHANNA,
VIJAY KUMAR HANDA.
SURINDER MOHAN GUPTA,
NEERA, TEWARI.

Application for Patent No. 408/Del/91 filed on 10-05-91

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110005,

(Claims 4)

A new process for preparing 3-exomethylene cephalosporin of the formula :

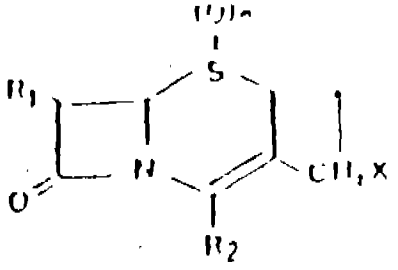


Wherein

R_1 is amino or a protected amino group,

R^2 is a carboxy or a protected carboxy group and n is 0, 1 or 2,

Which comprises reducing a 3-halomethyl-3-cephem derivative of the formula :



Wherein

R_1, R_2 and n are each as defined above and

X is halogen atom, with active tin generated in $SnCl^2$-Al system in presence of organic solvents of the kind such as herein described.

(Complete Specification 12 pages; Drawing Sheets : NIL),

Ind. Cl. : 32 F (2b). 177466

Int. Cl.[4] : A01N 53/00.

A PROCESS FOR PREPARING A MIXTURE OF THE lS-cis-S, IR-cis-S, IS-trans-S and IR-trans-S ISOMERS OF CYPERMETHRIN.

Applicant : FMC CORPORATION OF 1735 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA,

Inventor : JONATHAN SHEFFIELD BAUM, MICHAEL STEPHEN BLENN.

Application for Patent No. 52/Del/92 filed on 22-11-92.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 6

A process for preparing a mixture of the 1S-cis-S, 1R-cis-S, 1S-trans-S, and 1R-trans-S isomers of cypermethrin which comprises adding -hydraxy-3-phenoxyphenyl-acetonitrile having the S-configuration, at a rate such that the reaction does not get out of control, to a refluxing solution of racemic 3-(2, 2-dichlorocthenyl)-2, 2-dimethylcyclopropanecarbonyl chloride in a hydrocarbon solvent boiling in the range of 75 to 115°C, washing the reaction product with aqueous base, and recovering the product.

(Compl. Specn, 22 Pages Drugs. Sheets Nil)

Ind. Cl. : 129 F. 177467

Int. Cl.[4] : B02B 9/02.

AN IMPROVED PROCESS FOR MILLING DEHULLED RICE.

Applicant : RICETEC INC., OF BUSINESS AT ALVIN, TEXAS, UNITED STATES OF AMERICA.

Inventor : ROBIN DOUGLAS ANDREWS U.S.A., DEBORAH LOCKE, U.S.A. JOHN ARTHUR MANN; U.S.A., JAMES EDWARD STRAIKE U.S.A.

Application for Patent No. 237/Del/92 filed on 17-03-92.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 2

An improved process for milling dehulled rice for producing softer and stickier rice texture comprising : selecting a rice having a predetermined cooking behaviour and texture, wherein the said rice is milled to Satake milling degree of 78 or below and a transparence of atleast 2.0.

Ref—NIL

Agent - Anand & Anand

(Complete Specification 22 Pages: Drawing Sheets 1)

Ind. Cl. : 32 F (39) 177468

Int. Cl.[4] : C 07 C 41/06

PROCESS FOR PRODUCING DIMETHYL ETHER.

Applicant: RWE-DEA AKTIENGESELLSCHAFT FUR MINERALOEL AND CHEMIE, OF UBERSEERING 40, D-2000 HAMBURG 60, GERMANY.

Inventor : HARTMUT HAMMER, GERMANY.

Kind of Application : Complete

Application for Patent No. 790/Del/92 filed on 3-9-92.

Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 5

A process for producing odourless dimethyl ether which comprises subjecting in any known manner methanol to dehydration to obtain crude dimethyl ether, purifying by conventional distillation, said crude dimethyl ether, characterised in that said methanol and/or said dimethyl ether is/arc treated with acidic ion exchangers of the kind such as hereinbefore described.

Ref. Nil

Agent : Remfry & Sagar.

Compl. Specn. 12 pages Drngs. 4 sheets

Ind. CI. : 32F (2b) 177469

Int. Cl.[4] : C07D 233/00.

A PROCESS FOR THE PREPARATION OF NEW 1, 5-DIARYL-4. 5-DIHYDRO-2-METHOXY CARBONYLAMINOMIDIZOLES, USEFUL AS ANTIFILARIAL, AGENTS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-110001.

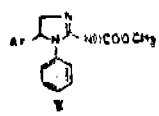
Inventor : SYED SHAWKAT NAIM, SATYAVAN SHARMA, SOMNATH SINGH NIGAR FATIMA. AMALENDU DUTTA, RANJEET KUMAR CHATERJEE.

Application for Patent No. 970/Del/92 filed on 26-10-92.

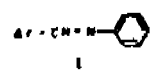
Appropriate Office for filing Opposition Proceedings (Rule 4, 1972), Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 7

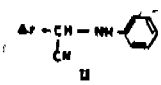
A process for the preparation of new 1, 5-diaryl-4, 5-dihydro-2-methoxycarbonylaminoimidazoles useful as antifilarial agent of the formula V.



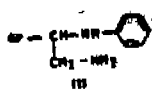
accompanying this specification where Ar is a phenyl, p-methoylphenyl, p-methylphenyl or m-fluorophenyl which comprises : (a) reacting appropriately substituted aromatic, aldehyde with aniline at room temperature to yield the Schiff base of the formula I;



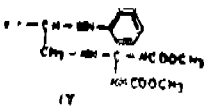
(to) adding the Schiff base of the formula I hydrocyanic acid in the presence of organic solvents at 0°C to form o-aminonitriles of the formula II.



where Ar is phenyl, p-methoxyphenyl, p-methylphenyl or m-flurophenyl, (c) reducing the compound of the formula II by conventional method to give the corresponding N-aryl-1-arylethylene diamines of the formula HI;



(d) treating the compound of the formula III with 1, 3-dicarbmethoxy-S methylisothiourea at a temperature in the range of 70-80°C to give 1, 2- is (methoxycarbonyl)-3-(2-amilinoalkyl) quanidies of the formula IV ;



and (e) cyclizing the compound of the formula IV in present of p-toluenesulfonic acid and an organic solvent at a temperature in the range of 80-100°C to five 1, 5-diaryl-4, 5-dihydre-2-methoxycarbonylam nomidazoles of the formula V.

(Compl. Specn. 11 pages; Drngs. 1 Sheet)

Ind. Cl. : 129 F 177470

Int. C1.4 : B 02 B 9/02.

AN IMPROVED PROCESS' FOR MILLING DEHULLED RICE FOR PRODUCING FIRMER AND LESS STICKY RICE TEXTURE.

Applicant : RICE TEC. INC. A CORPORATION DULY ORGANIZED AND EXISTING UNDER THE LAWS OF STATE OF DELAWARE, HAVING ITS PRINCIPLE PLACE OF BUSINESS AT ALVIN, TEXAS, USA.

Inventor : ROBERT DOUGLAS ANDREWS, USA, DEBORAH, LOCKE, USA; JOHN ARTHUR MANN, USA; JOHN EDWARD STROIKE, USA.

Kind of Application : Divisional.

Divisional to Patent Application No. 237/Del/92 dated to 17-3-92, Application for Patent No. 1286/Del/95 filed on 10-7-95. Ante dated to 17-3-92.

Appropriate Office for filing Opposition Proceedings (Rule 4, Patents Rules; 1972) Patent Office Branch, Karol Bagh, New Delhi-110 005.

Claims 2

An improved process for milling the detailed rice for producing firmer and less stickly rice structure comprising selecting a rice, having a pre-determined cooking behaviour and texture, wherein the said rice is milled to Satake milling degree of at least 100 and apparent amilose content greater than 19% by weight.

Indian Patent Application No. 237/Del/92 is referred in the specification.

Agent : Anand & Anand.

(Complete Specification 22 pages; Drawing Sheet 1)

OPPOSITION PROCEEDINGS UNDER SECTION 25.

An opposition has been entered into by M//s. Hindustan Lever Limited. Bombay to the grant of a Patent on Application for Patent No. 158206 made by M/9. Godrej Soaps Limited. Bombay is dismissed by Decision of the Bombay High Court.

The Opposition entered by Associate Cement Companies for a grant of patent on Application No. 166490 (843/Del/86) of National Council for Cement and Building Materials has been allowed and no patent shall be granted in this respect.

An opposition entered by Polar Fan Industries Ltd., Calcutta to the grant of a patent application No. 159023 (180/Del/83) has been allowed and the application for patent is treated as abandoned.

An opposition have been entered by M/s. Premier Polytronics Limited, Coimbatore-641018 to the grant of a Patent Application No. 176369 (278/Bom/1993) made by M/s. Star Precision Electronic (India) Limited, Baroda-390010.

An opposition has been entered by M/s. Godrej Soaps Ltd., Mumbai-400079 to the grant of patent on Patent Application No. 176382 (322/Bom/1992) made by M/s. Hindustan Lever Limited, Mumbai-400020.

RENEWAL FEES PAID

158607 158243 159744 160371 160651 161476 162670 162681
164384 164500 164560 164956 164958 165101 165546 165548
165587 165614 165664 166029 166055 166331 166349 166350
166397 166494 166497 166699 166700 167281 167336 167337
167338 167384 167399 167408 167454 167631 167674 167704
167718 167793 167820 167880 167929 167986 168033 168073
168426 168469 168479 168482 168483 168484, 168487 168670

168735 168941 169082 169170 169414 169418 169800 169905 169909 169935 169973 170033 170194 170256 170519 170691 170893 171059 171173 171174 171334 171339 171511 171713 171832 171946 171971 172157 172187 172260 172425 172466 172575 172794 172868 172869 112952 173035 173036 173065 173094 173099 173135 173193 173214 173255 173284 173432 173509 173577 173746 173674 173806 173807 173808 173844 173911 174001 174083 174085 174108 174307 174368 174431 174595 174750 174755 174760 174960 175001 175683 175776 175862 175935 175953 175955 176201 176204 176208 176209

PATENT SEALED ON 20-12-1996

158206 176501 176504 176510*D 176511 176512* 176513 176514 176517 176518 176519 176520*D 176523 176527* 176528* 176529*.

CAL - 11. DEL - 04. MUM - 01, MAS - NIL

*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D-Drug Patents, F-Food Patent*.

CESSATION OF PATENTS

109754 169758 169759 169775 169807 169840 169842 169861 169865 169880 169885 169886 169890 169895 169899 169926 169223 169933 169939 169949 169960 169986 170014 170022 170027 170037 170046 170052 170054 170065 170067 170073 170085 170113 170133 170139 170142 170149 170164 170166 170172 170193 170197 170200 170204 170205 170234 170252 170255 170273 170285 170293 170304 170308 170325 170335.

COMMERCIAL WORKING OF PATENTED INVENTIONS—ELECTRICAL ENGG. INDUSTRY LIST NO. J.

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970, in respect of Calander year 1994, generally on account of want of request for licences to work the Patented invention. Persons who are interest to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of Inventions
1	2	3	4
167001	19-2-1986	Adess Singh. C/o. Mrs. Mohinder Kaur, BXX-1095. Street No. 6. Gurdev Nagar. Ludhiana. Pin-141001. India,	A magnetic attraction electric motor with a conductorless rotor
161036	28-7-1983	Adrian March Ltd. 7 Argyle close, Witechall. Bordon. Hampshire GU35, 9PU, England.	Position sensor.
154069	9-4-1980	Alsthom Attantique. 38 Avenue Kleber. 75784. Paris, Cedex 16, France.	A high tension circuit breaker.
154700	22-9-1980	no.	A current transformer tor a high tension installation.
155010	18-11-1980	Do.	A device for separably assembling first and second enclosures of an electric cutout apparatus containing gas of high dielectric strength.
156219	16-6-1981	Do.	An electric shunt inductance winding for an electric power transport line.
157063	5-10-1981	Do.	A current transformer.
157993	23-3-1982	Do.	A supply circuit for electronic apparatus of a high electric potential.
158477	3-11-1982	Do,	Circuit breaker.
158317	1-10-1982	Aluminium Pachiny, 28 Rue de Bonnel. 69003. Lyan. France.	A device for the precise adjustment of the andoe plans of an electrolysis cell for the production of aluminium.

1	2	3	4
153807	10-3-1980	Asea Aktiebotag. of S-72813. Vasteras. Sweden.	Convertor for high voltage direct current, power transmission.
161499	21-9-1984	Asea Aktieboloag. of Do.	Semiconductor valve for High voltage applications.
161949	18-6-1984	ASAHI KASEI KOGYO. KABUSHIKI KAISAA, of 2-6, Dojimahama, 1, Chome, Kitaku, Dsaka-Shi, OSAKA, Japan.	Process for seperating borate ions from Aqueous solution by absorption,
168765	26-11-1987	Bailey Japan Co. Ltd. & NIP. of 551, Baraki, Nirayama-cho, Tagata-Gun, Shizuoka, Japan.	Electric actuator for a control valve.
168319	10-3-1987	Benke Instrument & Electro AG. Rutireg 9, CR-4133 Pratteln.	A process analyzar system.
172199	16-12-1987	Bergwerksverband, West Germany.	A large capacity coking reactor.
171090	21-7-1988	Bindicator company, 1915, Dave Street, Port Huron, Michigan-48060.	A system for indicating level of material in a vessel.
158264	26-5-1982	Bolmet Inc. Louisa Viens Drive, Dayville, State of Connecticut 06241, USA.	Metallized electrode strip and electric capacitor having the same.
168677	1-4-1989	Borden Inc. of ISO, East Broad, street, Columbas, Ohio, 43215, USA.	Electrodes.
173270	7-12-1989	Bowthorpe Hellermann, Ltd, of Crawley, West Wussex-RH-10, ZRZ, England.	Method of forming a cable joint between multi-core cables and an elongated core separator therefor.
165006	15-7-1986	Brown Boveri & Cie AG. Kallstadter Strassel, D-6800, Munnheim-Kciertal, West Germany.	Centralized control receiver for power distribution networks.
166462	9-12 1986	B.V. Optische Industries, Van Mierevcltaan 9, 2612, Xe. Delft, The Netherlands.	Piezoelectric attenuation tougue System for silt radiography equipment.
168333	19-6-1987	Do.	A device for slit radiography.
168569	9-12-1986	Do.	A slit radiography equipment.
169511	3-5-1988	Do.	Device for slit radiography with image equalization.
171236	6-10-1988	Coda Spa Construsioni-Electromeccaniche, E, Disposit of Via, Nazionale-34, 33042, Buttrio, (UO), Italy.	Device to measure the level of liquid metal in a crystallizer of a continuous casting ingot mould.
159609	7-1-1982	CEM-Compagnie, Electro Mecanique, of 12, rue, portalis, F-75008, Paris, France.	Sliding field inductor with oriented flux for agitation rollers in the continuous casting of slabs.
158244	28-7-1982	CERAVER, 12 Rue de la Baume, 75008, Paris, France.	A cap for an electrical insulator.
168791	18-4-1985	Do.	Improved insulator of the 'PIN' or 'POST' type.
161476	5-9-1983	Chubu Electric Power Comp. of 1 Higashi-shincho, Higashi-ku, Nagoya-shi, Alcni-ken, Japan.	Insulator for lightning arrester.
172376	8-2-1989	Communications Satellite of 950 L'En, fant plaza, S.W. Washington-D.C, 20024, U.S.	A printed circuit antenna.
171705	7-6-1989	Do,	Flat plate a tonnal including low noise block-down convertor integrated therein.

1	2	3	4
158352	28-7-1982	Compagnie Industrielie Das. Telecommunications, cit, Alcatel, of 12, Rue de la, Baums. 75008, Paris, France.	Synthetic reactor circuit.
160093	12-9-1983	Do.	Apparatus for detecting a loop during ringing with a telephone system.
160100	20-2-1984	Do.	Signaling terminal system for N. 7, signaling system.
160300	6-2-1984	Do.	Digital satellite exchange.
160570	14-11-1984	Do.	A spare subscriber terminal apparatus in a digital concentrate.
160944	6-2-1984	Do.	System for selecting one station from a set of stations dialoging with a main station.
164033	7.10-1985	Do.	Discharger for the protection of coaxial conducting cables against overvoltages.
164524	28-10-1985	Do.	Arrester device for protecting a circuit against overvoltage.
158256	23-4-1983	Council of Scientific & Industrial Research, of Rafi Marg, New Delhi-110001.	An improved process for the preparation of anhydrous magnesium chloride for use an cell feed for the electrolytic production of magnesium metal.
159410	7-8-1984	Do.	An improved process for the manufacture of silicon varactor diodes from spitaxial wafer.
160011	6-6-1984	Do.	A modified starte for a single phase induction motor.
161135	10-4-1984	Do.	A digital sine and cosine function generator for use in electronic instruments which require discrete frequencies.
161980	1-7-1985	Do.	An improved process for the preparation of manganese dioxide titanium anodes for use in the production of electrocytic manganese dioxide.
162352	8-11-1985	Do.	An improved process for the preparation of ruthensied titanium electrodes.
162627	8-3-1985	Do.	Low power water cooled klytsron valves.
162733	13-9-1985	Do.	Improvement in or relating to Hexadecimal Keyboard.
163102	21-2-1986	Do.	Improvements in or relating to frequency Agite magnetron.
163177	30-8-1985	Do.	An improved device for starting roomair conditioner units.
163185	30-8-1985	Do.	A direct reading four probe resistivity meter.
163219	17-2-1986	Do.	An improved process for electrolytic production of lead.
166170	24-11-1986	Do.	An improved slurry electrolytic process for the production of high purity iron powder from sponge iron fines.

1	2	3	4
166188	23-3-1987	Council of Scientific 4 Industrial Research, of Rafi, Marg, New Delhi-110001.	Microprocessor based automated control unit for monitoring multi electrochemical protection system.
166228	20-1-1987	Do.	An improved three phaxe motor starter with inbuilt single phase preventor.
166254	27-9-1987	Do.	Method of making chemically modified iodideion selective electrode.
167670	10-3-1988	Do.	A theft alarm system.
167682	29-1-1987	Do.	An improved process for the manufacture of a tool for electrochemical machining of materials and the tool so manufactured.
167859	21-1-19988	Do.	Electronic digital maximum demand indicator.
167953	22-2-1988	Do,	Eimer actuated switch for industrial dust collectors as well as for the control of sequential cydic switching of loads,
169587	16-12-1987	Do.	Electronic control device for electrochemical dissolution process.
170228	5-6-1987	Do.	A device for automatic uninterrupted single phase power supply from a three phase power supply source.
170905	25-10-1988	Do.	A process for making a transdermal device for the administration of primaquine.
171794	31-12-1987	Do.	An improved process for the preparation of high temperature super conductor.
167229	30-5-1988	Degussa AG. Frankfurt/Main, 6450 Hanu, 1. Postfach 1345, Federal Republic of Germany.	Electrical contacts.
153792	12-2-1980	Dells-Alsthom, of 130 Rue, icon Blum, 69611, Villeurbanne, France.	Circuit braker with resistance switch indevice.
158820	13-7-1983	Energy Conversion Devices, of 1675, West Maple, Rd, Jroy, Midugam 48084. USA.	Anode from electrolytic cell and a method of making the same.
160085	13-7-1983	Do.	Improced alkalinefuel cell
161224	22-2-1984	Do.	Thermoelectric device exhibiting decreased stress.
168952	12-8-1987	Eaton Corporation, of 111, Superior Avenue, Cleveland, Ohio-nullu, USA.	Electro magnetic contactor having improved structure and assembly.
170777	3-8-1988	Do.	A control system for a splitter type change gear auxiliary transmission section.
171151	15-11-1988	Do.	A plural phase overload relay.
172389	29-1-1990	Do.	A thermal coverload relay.
173331	15-9-1987	Electricity Association, services Ltd, of 30, Milkbank, London, SWlP, 4RD, UK,	Apparatus for remotely protecting three phase electricity supply distribution.
164992	10-2-1986	Do.	Energy converter.
162848	13-12-1983	Focas Ltd, of chency, Alanor, Industrial Estate, Swindon, SN2-PJ, England.	A fibre optic cable assembly installed with high voltage equipment.

1	2	3	4
163047	15-11-1984	Fujitsu Ltd, Japan.	Subscriber line rachioconcentration system.
163352	13-11-1984	Fujisui Ltd, of 6-1, Marunouchi-1-choje, Chioyda-ku, Tokyo, Japan.	A digital radio relay equipment having a function for manipulating auxiliary signals.
153617	27-3-1981	General Electric Company.	An electrical capacitor electrode foil method of manufacturing the same and an electrical capacitor having such foil.
154216	24-6-1981	Do.	Electric power supply system more particularly to power supply for electrically propelled traction vehicles.
163440	27-12-1985	General Electric Company of 1 River Road, Sohenectady 5, New York, U.S.A.	Insulated armature coil for dyanantoelectric machine.
169018	6-11-1987	Do.	A laminated insulating member.
172359	8-8-1989	Do.	Combustar gas fead with coordinated proportioning.
168230	28-12-1987	Goldstar Co. Ltd, Lucky Goldstar Twin, Towers, 20, Yoido Dong, Yongdungpo-Gu, Seoul 150, South Korea.	Flyback transformer.
168496	4-11-1987	Do.	A switching-type stabilizing power supply circuit.
170017	28-7-1988	Do.	Timer circuit.
170020	26-8-1988	Do.	Intermediate frequency converter for multiplex, broadcasting, TV, receiver.
164539	20-6-1986	Heinz krug, Care Akademie Meru Station 24, NL-6063, NP, vloohop, Netherland.	Circuit arrangement for testing integrated circuit components.
166626	4-5-1987	Hoesch AG, ardstrasse. 12, 4600, Dortmund 1, West Germany.	Centre free large antifriction bearing with integrated electrical direct drive.
166382	11-8-1986	Hollandes Signazlapparaten B.V. Zuidelljke, Havenweg 40, 7550, GD Hengelo, The Netherlands.	Pulse radar apparatus.
168837	27-11-1987	Hollandse Signaalapparaten, B.V. Zuidelljke, Havenweg 40, 7550, GD Hengelo, The Netherlands.	A communication system.
169389	11-8-1986	Do.	Pulse radar apparatus.
162453	21-1-1985	Hughes Aircraft, Co.	Non-volatile semi-conductor memory unit.
162858	18-4-1985	Hughes Aircraft Co,	Method for incapsulating and impregnating article such as electrical components.
171213	25-1-1989	Hitachi. Japan.	Control system for load sensing hydraulic drive circuit.
171918	6-9-1989	Do.	Engine remote control system.
159462	7-5-1983	Imperial Chemical Industries Plc,	Electrolytic cell containing gasket having projections and/or recesses.
168804	20-11-1987	International Control Automation Finance S.A. of ville de Luxembourg. 16. Rue des Bains, Luxembourg.	A steam temperature controller.
171701	19-9-1988	Do.	Advanced proportional plus integral plus derivative controller.
173051	18-7-1989	Do.	Digital electronics system for controlling a fiber optic shedding flowmeter.

1	2	3	4
154480	30-10-1981	Jeumont-Schneider 31-32 Quai Do Dion Bouton. 92. 811, puteaux cedex. France	A control circuit for a directeuttent motor during traction or braking.
160826	16-9-1983	Do.	Control circuit of a synchronous motor with two cinduced windings.
166749	19-1-1987	John. J. Vithayathil. of 3814. N.E. 136th. place, portland. oragon. 97230. USA.	Apparatus for rapid adjustment of network impedance.
167560	18-6-1987	Karel Havel. Canada.	An electro magnetically, actuated saitching device.
168915	2-3-1988	Karel Havel. Canada.	Variable colour display telephone.
169382	7-1-1988	Karel. Havel. 15. Kensington. Rd. Apt. 704. Bramelea. Ontario. Canada. L6T. 3WZ. Canada.	Measuring device for a variable colour digital volt, meter for indicating measured values,
169493	6-4-1988	Do.	An electrical multi connector.
169651	6-7-1988	Do.	An electrical connector.
169083	9-9-1987	Klockner Cra. Patent GMBH. Klockner-strasse 29. 4100 Duisburg. 1. A-West Germany.	An improved process for producing metallic smelts in electric furnace.
159078	19-8-1983	Krone AG. West Germany.	Clemping elements for connecting electric conductors without welding screwing and baring.
166064	16-4-1987	Do.	Connector bank for cable wires in particular of telephone cables.
168899	15-6-1988	Do.	Connector bunk for tele communication device.
168989	25-11-1987	Do.	Device for connecting cable wires to cutting/ Clamping contacts of dropwire connector banks or telecommunication systems.
169513	16-5-1988	Do.	A frame for holding connector banks for connecting different cables in telecommunication systems.
169696	30-8-1988	Do.	Thermal protection device for over voltage suppressors mounted in over voltage suppressor magazines of communication systems.
171233	31-5-1989	Krone. AG. of Beaskowdamm-3-11. D-1000. Berlin. 37. West Germany.	Contract member for electrical conductors.
169207	5-2-1987	Lacrex Brevetti. S.A. of Via. Eco-cosa. Luce. CH. 6644. orselina./TI. Switzerland-	Contact breaking ignition plug.
158465	3-11-1982	La Telemacanique. Electrique. 33 vis. Avenue du Marechal-Jofree-92000, Nanterre, Franco.	A mechanically controlled switch with automatic opening for a protective limiting device.
158466	3-11-1982	Do.	A contractor apparatus.
158467	3-11-1982	Do.	Contractor apparatus.
138813	14-1-1983	Do.	A device for resiliently holding a contact bridge in combination with said contact bridge.
159760	24-11-1982	Do.	A contactor having self-protection means against the effect of the forces of repulsion between the contacts

1	2	3	4
167685	2-6-1987	La Telemacanique, Electrique, 33 vis. Avenue du Marechal-Jofree-9:000, Nanterre, France.	Frequency converter for the power supply of synchronous motors.
171351	13-7-1987	Do.	A device for preventing accidental change of one or more selected reset modes of manual control member.
171859	8-2-1988	Do.	Circuit breaker with remote control.
172195	13-7-1987	Do.	Snap acting switching device.
172722	1-7-1988	Do.	Overload thermal relay.
161403	2-2-1985	Madhab Anant Date & Vithal Narasiha Kamat. of C/o. D.D. Prabhu. Saraswati Niket. 5. Camac Street, Calcutta 700017. West Bengal. India.	A static single phase kilowatt hour meter.
161750	11-10-1985	Do	An overload stripping device fur transformers.
168575	16-8-1988	Do.	A single phase digital energy motor.
165457	10-6-1986	Mannesmann AG. F.R. Germany,	Method and apparatus for melting a metal material.
156670	3-8-1982	Metallurgical & Engineering consultants (India) Ltd. Doranda. Ranchi-834002. Bihar. India.	A fuse failure and no volt monitoring and protection device for a 3-phase electrical apparatus.
163969	28-9-1987	Do.	Electric motor-driven vehicle.
166070	31-8-1987	Do.	System for detecting leakage of water from blast furnace luyere (s).
154984	15-3-1982	Minnestote Mining & Manufacturing Germany.	An electrical connection for non-prestipped wires.
155798	27-4-1982	Mitsubishi Denki Kabushiki Karsha. 2-3. Marunouchi. 2-chome. chlyodaku. Tokyo. Japan.	Method of producing an electrically insulated conductive body.
156392	30-3-1982	Do.	Terminal connecting device.
156473	14-4-1982	Do.	Drawer-type circuit breaker.
156898	27-7-1982	Do.	Input converting circuit.
157465	24-1-1983	Do.	Air circuit breaker.
157937	6-7-1983	Do.	Lighting arrester with leakage current detection.
158745	25-3-1983	Motor Industries Co. Ltd, Hosur. Adugodi. Bangalore-560030, India.	Improvements in or relating to high voltage spark plugs.
166063	12-3-1987	MWB. Messwandler-Bay AG. of Nurnbarger. Strasse, 199. D-8600. Bamberg. West Germany.	Combined high voltage current and voltage transformer.
169082	29-10-1986	Do.	High voltage head current transformer and method of manufacturing same.
171971	27-10-1988	Do.	High voltage transformer.
165744	5-5-1986	Narendra Kumar Sharma Residing nearby Agradoot club. Calcutta-700084.	Improvement in TV singal booster.

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170054	28-7-1988	National Computer systems, Inc. of 11000, Prairis Lakes Drive, Eden Praia's, Minnesota. 55344. USA.	A device for detecting variations in the expected velocity of a dixument scanned by scanning means.
165690	26-10-1987	NGK Insulators. Ltd. of 2-56. Suda-cho. Mizuho-ku, Nagoya, City, Aichi prof. Japan.	High voltage porcelain insulators.
166467	27-2-1987	Do.	Pollution proof insulators.
172465	7-8-1989	Nico Pyrotechnik Hans Jurgen. Diederichs GMBH & CO. of BEI DER. FEVERWERKE. D-2077, Trittau, F.R.G.	An impact fuse having force bore safety.
169169	23-2-1987	Northern Engineering Industries Plc.	ARC interrupter.
164598	9-10-1986	Nuken GmbH, West Germany.	Solar cell.
170013	15-7-1988	Do.	Method of restoring a damaged/worn out metal insulator semiconductor (MIS) inversion layer solar cell.
170014	15-7-1988	Do.	Encapsulation of a photo voltaic element.
167264	2-3-1987	OKI Electric Industry, Co. Ltd. Japan.	Analog-digital hybrid integrated circuit.
169053	1-7-1988	Do.	Contention control system.
169806	2-3-1987	Do.	Analog-digital hybrid integrated circuit.
158640	16-4-1983	Outokumpu OY, Toolonkatu 4, SE-00l00. Helsinki 1, Finland.	An electric furnace intended for smelting or heating
158321	26-8-1983	Permelac Electrode Ltd. 1159, Ishikawa, Fujisashi, Kanagawaken, Japan.	Electrolytic electrodes having high durability and process for production of same.
162739	27-2-1985	Philip Joy, of S-466, Greater Kailash Part I, New Delhi-110048. India.	A transmission booster.
162740	27-2-1985	Do.	A transmission booster.
157972	16-9-1982	Raymond Emmett, Melntyre, 31, Southern Cross Drive, Cronin Island, Surfers Paradise, Queensland, Australia.	Improvement in or relating to electrical connection devices.
154S02	1-10-1981	Rosemount Inc. of l2001, West 78th Street, Eden, Paairis, Minnesota-55344, USA.	Capacitrve pressure transducer with isolated sensing diphragm.
156305	22-10-1982	Do.	Circuit for measuring the reactance of an AC reactance.
161638	15-5-1985	Ruhrtal Elektrizitatsgesellschaft. Harting, GmbH. 1 Co. of Ruhrtalstrassa, 19, 4300, Essen 16. F. R. of Germany.	A cut out switch, particularly to a single column scissor, cut-out switch with a main contact system & a secondary contact system.
160165	26-3-1984	SAFT, 156 Avenue de Matz, 93230. Romainviller. France.	A method of manufacturing an electrode for an electro-chemical cells and an electrode manufactured by the method.
168177	25-5-1987	Satake Engineering Co. Ltd, at 7-2, Sotokanda 4-chome, chiyoda-ku Tokyo, Japan	Variable speed controlled induction motor,
167691	27-3-1987	Schwabe GmbH. of 7068, Vrbach, West Germany.	Power line adaptar example fluorescent light ballast, transformers or the like.
159022	18-3-1983	Sohia Commercial Development Company, at midland Building, Cleveland. Ohio-44115, U.S.A.	A method of fabricating a thin film heterojunction photovoltaic cell.

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160660	18-1-1983	Sony Corporation 7-35. Kitashinagawa, 6-chome, Shinagawa-ku, Tokyo, Japan.	Tape cassette
163621	3-6-1982	Do.	Magnetic disk assembly.
163622	14-6-1982	Do.	Magnetic disk cartridge.
158058	17-6-1982	Do,	Viedo tape casette.
172178	29-1-1988	Steien Industries, of 19—21, Avenue Morane, Saulnier, 78140, Velizy, Villacoublay, France,	Heat exchange component for a heat exchanger.
162325	19-11-1984	Do	Apparatus for continuously monitoring the removal of clinker from coal-fired boilers in thermal power stations.
157089	19-8-1981	Stock Equipment Company, 731 Hannu Building, Cleveland, Ohio 44115, USA.	Product to frequency converter.
172923	26-12-1989	Sujit Kumar Biswas of.	An improved three phase pulse with Controlled semi converter.
161046	14-12-1983	Taproggo AG, MBH, F. R. Germany.	Equipment for mechanically cleaning cooling water flowing from power station condenser.
171975	22-5-1989	Taxaco Development Corpn, U.S.A.	Heat exchange apparatus.
155303	20-1-1981	Thamson-CSF, of 173 B-l, Haussonann, 75008. Paris, France.	A diversity Radio transmission system.
166223	9-4-1986	The General Electric Company Ltd. of 1 stunhop, Gate, London, W1A, 1EH. England.	Differential relay in protact an electrical feeder.
156010	29-1-1982	Thomcast AG.	Switching amplifier for high power amplication of an enaloglow-frequency signal.
156015	13-V1982	Do	Switching amplifier.
157616	29-11-1982	Do	Switching and amplifier.
160485	10-4-1984	Do	Switching amplifier for digital power amplification.
161537	24-7-1984	Do	Amplitademodulated transmitter with controlled carrier value.
151999	22-5-1981	Union Carbide India 270, Park Avenue, New York, State of New York 10017, USA.	Metalcap for exposed top of carbon electrode of dry cell and an improved dry cell incorporating same.
167623	23-12-1986	Unique Mobility Inc. of 3100, S. Jason St. Englewood, Colorado 80110, USA.	Light weight electromagnetic transducer having high power output coupling and a dynamoelectric machine comprising same.
158212	16-3-1983	United Technologies	A wind turbine system for generating electric power.
166735	24-4-1986	Vacum interruters Ltd. of 68, Ballards Lane, Finchlay, London, N3, 2BU, England	A contact for an electric switch.
166736	24-4-1986	Do	A contact for an electric switch,

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166316	18-9-1986	Videocolor, of 7, Boulevard Romain Rol1and-92128. Montrouge. France.	Casthode-welding mechanism for electron gun.
166317	6-10-1986	Do	A device for correcting the deflection effect due to a variation of the focusing voltage in trichromatic cathode ray tube within link cathodes.
166440	1-10-1986	Do	An electron gun for a cathode ray tube and method of manufacturing a hearing filament of said electron gun.
166455	28-5-1986	Do	Method & device for illuminating the face plate of a color television tube for formation of the screen.
166688	1-10-1986	Videocolor.	Machine for depositing a product on a plane horizontal surface of an object.
166689	1-10-1986	Do	Device for automatic simultaneous measurement of the respective distance between cathodes and the second grid of a tricheomatic cathodes tube gun.
167739	1-10-1986	Do	A device for the manufactures of bases for vacuum tubes.
163515	10-3-1986	Voest Alpine Ag. A-4020, Linz, Muldenstraba 5, Austria.	A control device for controlling constant current in resistance welding machine.
158593	22-4-1984	Westinghouse Electric Corporatíon of Westighouse Bldg. gateway centre Pittsuburg, Pennsylvania-15222. USA.	Low DC voltage high current switch assembly.
158950	22-4-1982	Do	Electrochemical cell shunting switch assembly with matrix array of switch modules.
170884	25-10-1988	White Consolidated Industries Inc. 11770, Berea Rd. Cleveland, Ohio-44111, USA.	Room air conditioner.
168619	14-5-1987	W & T. Avery Ltd. of Smethwick, Warley, West Midlands, B66, 2LP, England.	A weighing system.

REGISTRATION OF DESIGNS

—NIL—

T R SUBRAMANIAN

Controller-General of Patents, Designs and Trade Marks,

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